MICROWAVE TUBE D.A.T.A.BOOK

MANY CATEGORIES INCLUDING:

- MAGNETRONS
- KLYSTRONS
- NOISE SOURCE
- TRs
- ATRs
- CROSSED-FIELD AMPLIFIERS
- TRAVELING WAVE TUBES
- BACKWARD WAVE OSCILL.
- PRE-TRs
- DUAL TRs

NEW . . . Information on 2700 Discontinued Types

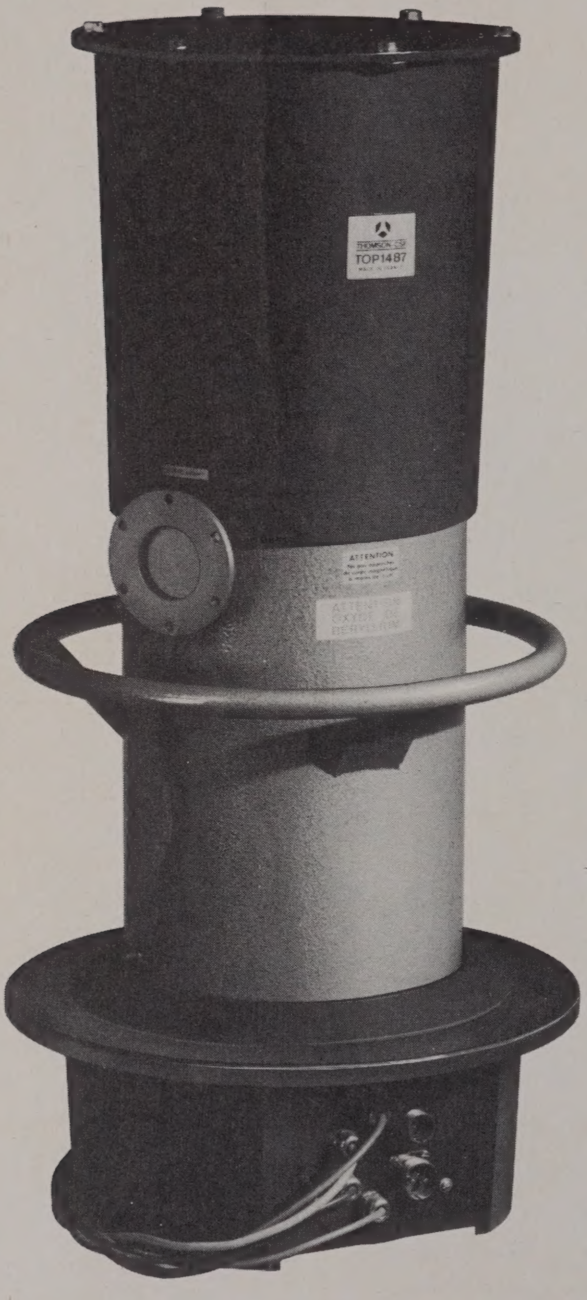
SPRING 1975

34th EDITION

THIS D.A.T.A.BOOK VALID UNTIL SEPTEMBER 1975

D.A.T.A. REFERENCE STANDARDS FOR INDUSTRY

Down-to-earth results! in uplink transmission

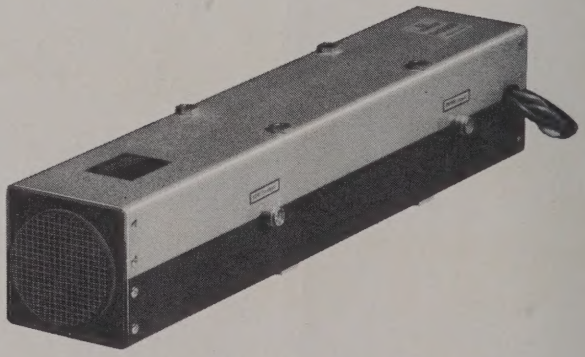


The full line of 6 GHz uplink-transmitter tubes from THOMSON-CSF's Electron Tube Group now includes five field-proven models, delivering from 4 watts up to a mighty 1.5 kilowatts (the TOP 1487 B). To single two out:

TOP 1487. Now the most widely used tube of its kind in INTELSAT-type standard earth stations, this traveling-wave tube is chalking up an enviable performance record. Its unmatched fine transmission characteristics (for a 1.2 kW power TWT) well illustrate the group's mastery of advanced-TWT technology.

TH 3508. Capable of transmitting a 24-telephone-channel carrier, this 250-watt TWT is especially well suited for use in low-cost "non-standard" earth stations, such as in national or regionals systems. Already providing outstanding service in several stations, the TH 3508 has demonstrated exceptionally long operating life.

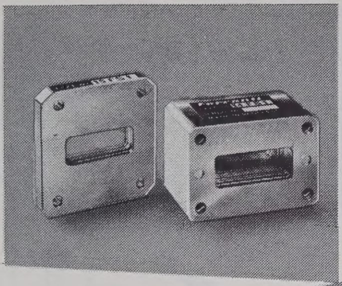
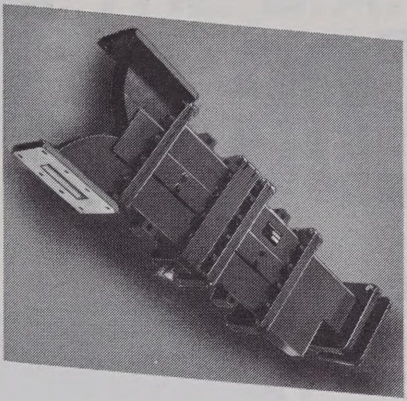
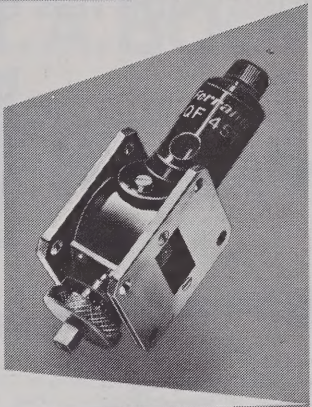
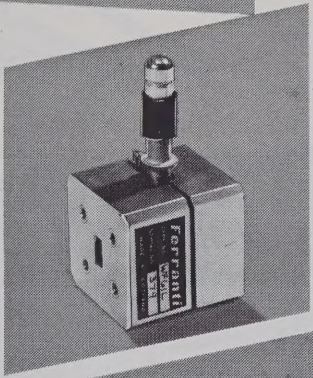
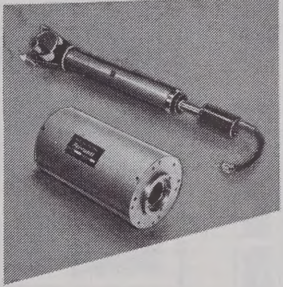
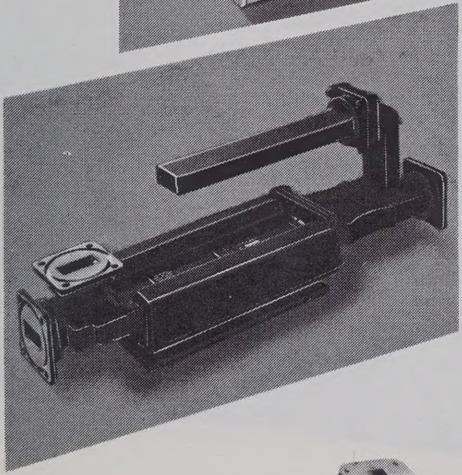
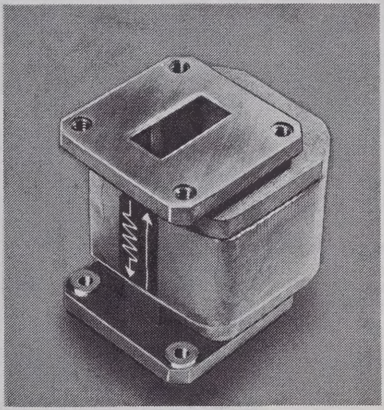
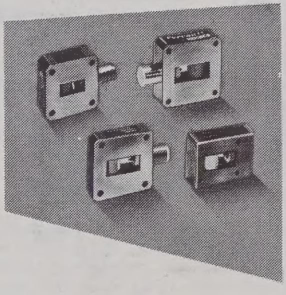
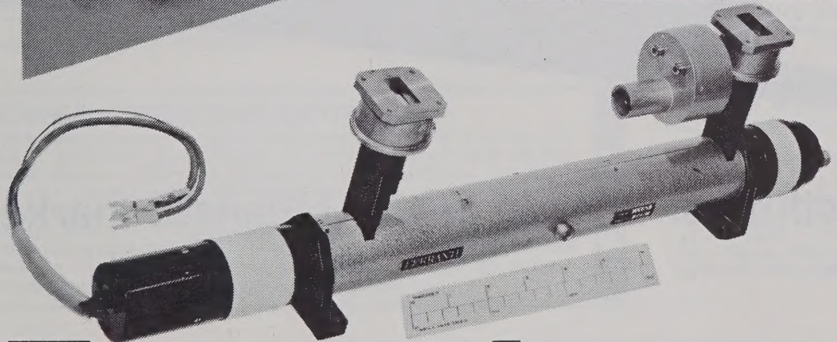
Building upon these "down-to-earth" but highly rewarding results, the Electron Tube Group now has developed a family of state-of-the-art TWT's for the projected 14 GHz uplink transmitters. Included are a 20-watt model, a 100-watt helix tube, and a powerful 2-kW coupled-cavity TWT, employing forced-air cooling. On the frontiers of 14-GHz TWT technology, they're just one more reason why **it's natural to think "THOMSON-CSF" when you think microwave!**



THOMSON-CSF

THOMSON-CSF ELECTRON TUBES, INC. / 750 BLOOMFIELD AVENUE / CLIFTON NJ 07015 / TEL. (201) 779.1004 / TWX: 710 989 7149
France - THOMSON-CSF Groupement Tubes Electroniques / 8, rue Chasseloup-Laubat / 75737 PARIS CEDEX 15 / Tel. (1) 566 70.04
Germany - THOMSON-CSF Elektronenröhren GmbH / Am Leonhardsbrunn 10 / 6 FRANKFURT/MAIN / Tel. (0611) 70 20.09
Italy - THOMSON-CSF Tubi Elettronici SRL / Viale degli Ammiragli 71 / ROMA / Tel. (6) 38 14.58
Japan - THOMSON-CSF Japan K. K. / Kyosho Building / 1. 9. 3. Hirakawa-cho / Chiyoda-ku / TOKYO / 〒 102 / Tel. (03) 264.6341
Spain - THOMSON-CSF Tubos Electronicos SA / Alcala 87 / 7° Dcha / MADRID 9 / Tel (1) 226 76.09
Sweden - THOMSON-CSF Elektronrör AB / Box 27080 / S 10251 STOCKHOLM 27 / Tel. (08) 22 58.15
United Kingdom - THOMSON-CSF Electronic Tubes Ltd. / Ringway House / Bell Road / Daneshill / BASINGSTOKE RG24 / OQG / Tel. (0256) 29.155

2233

X–Band TWT LY50
30 KW 1 per cent duty
140 microsec pulse
47 DB gain.

Ferranti are on your microwavelength.

We're in tune with the microwave business and understand the kind of problems that crop up.

Our capability applies both to the radar and communication fields.

If you're multiplexing, we have the right components.

If you're concerned about receiver protection, we offer it. If you're interested in high power pulses, take ours.

In short, we have both the capability and the components.

And of course the assurance of quality that goes with our name.

Send for our folio of data sheets on radar or communications systems components and details of this month's feature product.

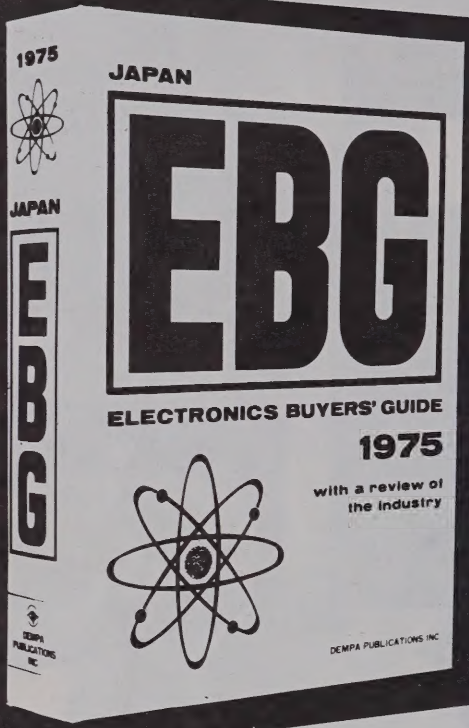
Ferranti Limited,
Microwave Components Sales,
Professional Components Department,
Dunsinane Avenue, Dundee,
Scotland. DD2 3PN.
Telephone: 0382 89321.
Telex: 76166.

FERRANTI

DS/T 273 rb

Everyone has questions about Japan's electronic industry.

JAPAN EBG 1975 has the answers.



- Catalog Section
- Reference Section – statistical articles
- Product Directory – over 1800 items
- Manufacturer Directory – over 1200 names & addresses
- Traders Directory – 517 companies
- Japanese Firms, Branches and Agents – 1024 offices
- Foreign Firms' Representatives in Japan – 256 offices
- Organizations Related to Electronics – 72 groups

Whether you're selling or buying in the Japanese market you will need ––

The 1975 JAPAN ELECTRONIC BUYERS' GUIDE which has been completely revised and contains the most up-to-date information available on Japan's electric and electronic industries and their products.

This total guide gives you more than 1200 manufacturers of over 1800 electronic products –– components, materials, assemblies, instruments, etc. The company addresses, telephone numbers, cable addresses and telex numbers are given along with their capital, annual sales, number of employees, names of the presidents and sales managers and the trade names of their main products.

The nine sections into which this valuable book is divided cover every aspect of Japan's electronic industry, and is published by Dempa Publications. You may order through their United States representative, D.A.T.A.,Inc., A Cordura Company.

Send your order, with payment enclosed*, to:

D.A.T.A.,Inc.
Dept. BMW4A
32 Lincoln Ave.
Orange, N.J. 07050

$43.58 U.S.
$48.58 International
*** If you wish to be billed, add $1.50 to above prices.**

CHECK YOUR FULL NEEDS HERE AND ORDER BELOW.

THE D.A.T.A.BOOKS

. . . give you all the answers you need to the Sources, Electrical and Mechanical Specifications, and technical trade-offs . . . for all Industrial, Commercial, Government and JEDEC devices.

TRANSISTORS: Twelve (12) technical sections listing over 17,000 type numbers from 116 manufacturers, arranged for immediate comparison. . .plus, outline drawings, more than 455 MIL Spec type numbers, and the two most popular replacement series. Two (2) completely revised editions per yearly subscription.

DISCONTINUED TRANSISTORS: Facilitates substitutions when used with the Transistor D.A.T.A.BOOK. Lists over 10,565 types which have become obsolete since 1956. A "must" for complete replacement data. Published annually.

SEMICONDUCTOR DIODES: Gives detailed information on over 45,600 diodes from 152 manufacturers, including the two most popular replacement series. Dimensioned outline drawings and military types with their QPL manufacturers complete this valuable reference source. Published semi-annually.

MSI-LSI MEMORIES: Covers 2,700 types from 50 manufacturers in six major categories: ROMs, RAMs, character generators, code converters, CAMs, and shift registers with logic and outline drawings. Now includes military types with their QPL manufacturers and specification references. Published semi-annually.

THYRISTORS: Covers SCR's, TRIAC's, Schockley Diodes, Gate Turn-off devices, SCS's, Triggers, etc. The world's only comprehensive source of technical information from 76 worldwide manufacturers of Thyristors. Contains 15,800 types with lead designation and 440 outline drawings. Published semi-annually.

DISCONTINUED THYRISTORS: Describes more than 5,800 manufacturer-discontinued types. The format matches corresponding sections in the Thyristor D.A.T.A. BOOK, making this a "must" when looking for replacements. All ex-manufacturers identified. Published annually.

NEW

POWER SEMICONDUCTORS:
Power semiconductor applications information in a single volume. Electrical and physical characteristics of over 24,500 power devices. Standard and fast recovery rectifiers (10 Amps and up), power zeners (10 Watts and up), power transistors (5 Amps and up), general purpose and inverter SCRs (10 Amps and up), triacs and miscellaneous thyristors (10 Amps and up). . . from worldwide manufacturers, plus. . .380 package outline drawings with leads identified, plus. . .1N, 2N and 3N JEDEC devices and types with U.S. Military specifications.

NEW

LINEAR INTEGRATED CIRCUITS: Provides characteristics for over 6,700 types from 83 manufacturers in the following categories: operational, differential, audio, wideband, and RF/IF amplifiers; voltage regulators and comparators. Includes schematic and outline drawings, military types with associated military information and the two well-known replacement series. Two updated editions per year.

DIGITAL INTEGRATED CIRCUITS: More than 16,000 type numbers from 80 worldwide manufacturers are tabulated by characteristic in standardized format for easy reference. Includes logic and outline drawings, 800 military types with QPL manufacturers and applicable MIL Spec references. Now also contains the two best-known replacement series. Subscription includes two (2) semi-annual editions.

DISCONTINUED INTEGRATED CIRCUITS: The only all-inclusive source of data on ICs that have become obsolete since 1965. Follows format of current IC D.A.T.A.BOOKS to facilitate substitution and replacement. Contains over 14,600 types, including major series no longer manufactured. Identifies all ex-manufacturers and is updated with each annual edition.

SEMICONDUCTOR APPLICATION NOTES: Offers easy access to the application notes on over 3,800 circuits from 60 manufacturers. Notes are tabulated in Analog and Digital circuit categories, plus Discrete and IC Device Categories, with sub-categories providing application details. Principal device types referenced for each circuit application. Subscribers can order notes published by these manufacturers from a single source. . .D.A.T.A. . . by using the "Request Cards" bound in the book. Listing of notes revised semi-annually.

MICROWAVE TUBES: Indexes 4,500 types from 34 manufacturers for military and commercial application. Includes BWTs, TWTs, Crossed-Field Amplifiers, Noise Generators, Helitrons, Klystrons, Magnetrons and Platinontrons, TRs and ATRs. Arranged in order of tube type, center frequency, power output and type number. Identifies QPL manufacturers and military specifications. Now includes 2,300 discontinued types. Published semi-annually.

RELAYS: Makes it possible to review, compare and select from the more than 8,100 devices approximately one (1) cubic inch or less in volume and compatible with semiconductor packaging requirements. Covers: Miniature Armature — Subminiature Armature — Dry Reed — Mercury-wetted Reed — Solid State — Hybrid and Time-delay relays. Shows pin connections and dimensioned outlines. Updated and published annually.

HOW MANY SUBS.?	Book Code	D.A.T.A.BOOK DESCRIPTIONS (If your company requires a P.O., please include book code and description.)	Editions Per Year	ONE YEAR PREPAID SUBSCRIPTION			
				UNITED STATES	INTERNATIONAL — U.S. DOLLARS Check box for type of shipping preferred.		
					SURFACE ☐ Worldwide	AIR MAIL ☐ Europe, So. America, Medit. Africa	AIR MAIL ☐ Asia, Pacific USSR, Africa
	TR	TRANSISTORS	2	$38.50	$40.90	$46.90	$50.40
	XT	DISCONTINUED TRANSISTORS	1	17.00	17.85	19.30	20.15
	DI	SEMICONDUCTOR DIODES	2	44.50	46.90	56.80	62.00
	SM	MSI-LSI MEMORIES	2	28.50	30.20	33.10	34.80
	TY	THYRISTORS	2	29.50	31.20	35.50	37.90
	XD	DISCONTINUED THYRISTORS	1	9.75	10.35	11.35	11.85
	PW	POWER SEMICONDUCTORS	2	47.50	49.90	55.90	59.40
	LN	LINEAR INTEGRATED CIRCUITS	2	34.50	36.20	40.50	42.90
	DG	DIGITAL INTEGRATED CIRCUITS	2	42.50	44.90	53.30	57.90
	XC	DISCONTINUED ICs	1	17.50	18.35	19.80	20.65
	AN	APPLICATION NOTES	2	25.50	26.70	29.10	30.40
	MW	MICROWAVE TUBES	2	29.50	31.20	34.10	35.80
	RL	RELAYS	1	27.50	28.35	29.80	30.65

Prices subject to change without notice. PLEASE RETURN THIS CARD WHEN ORDERING.

Please request quotation on any area not covered by above.

YES! Enter my order for D.A.T.A.BOOKS as indicated.

(Please print) BMW41

Name ______________________

____

Title ______________________

Company ______________________

Address ______________________

City ______________________

State & Zip ______________________

Signature ______________________

P.O. No. ____________ Date ____________

☐ Attached ☐ Will follow

☐ **PAYMENT ENCLOSED** (No handling charge — full refund privilege)

☐ **BILL** (Add handling charge of $1.50 PER SUBSCRIPTION to above prices)

YOU CAN ORDER D.A.T.A.BOOKS FROM

REPRESENTATIVES

AUSTRALIA, NEW ZEALAND, PAPUA, NEW GUINEA and TASMANIA
JOHN HINTON PTY. LTD.
Archer House
75 Archer Street
Chatswood, N.S.W., Australia 2067
Telephone: 410391 – 419 2386

Address Mail to : P.O. Box 311
Chatswood N.S.W.
Australia 2067

BELGIUM, NETHERLANDS and LUXEMBORG
KREISLER-IMPORT B. V.
P.O. Box 2053
Joan Maetsuyckerstraat 257
The Hague, Netherlands
Telephone: 85 65 55

BRAZIL
PUBLICACÕES TÉCNICAS
INTERNACIONAIS LTDA.
Rua Marques De Itu, 306-CJ 74
Caixa Postal 1703
Sao Paulo, SP Brazil

ENGLAND, SCOTLAND and WALES
LONDON INFORMATION
(ROWSE MUIR) LIMITED
Index House
Ascot, Berkshire, England
Telephone: 0990-23377

REPRESENTATIVES

FRANCE
RADIO TÉLÉVISION FRANCAISE
73, Avenué Charles-de-Gaulle
Poite Postale 146
92, Neuilly-sur-Seine, France
Téléphone: 722-70-40

ITALY
C.E.T.I.
Centro Edizioni Techniche Internazionali
Lungo Po Antonelli, 205
10153 Torino, Italy
Telephone: 896-982

JAPAN and FAR EAST ASIA
DEMPA Publications, Inc.
11-15, Higashi Gotanda 1-chome
Shinagawa-ku
Tokyo 141, Japan
Telephone: (03) 445-6111
Telex: PRSDEMPA TK 6792
Cable: DEMPASHINBUN TOKYO

SOUTH AFRICA
ALLIED ELECTRIC (PTY.) LTD.
Van Dyk Road P.O. Box 6090
Boksburg East Dunswart
South Africa South Africa
Telephone: 52-4341/2/3/4/5
Telex: 43-7823
Cable: "SOLIDSTATE" DUNSWART

FIRST CLASS
PERMIT NO. 14
ORANGE, N.J.

BUSINESS REPLY MAIL

NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

POSTAGE WILL BE PAID BY

D.A.T.A., INC.
A Cordura Company

32 Lincoln Avenue
Orange, New Jersey 07050

D.A.T.A., INC.
A Cordura Company

ECUTIVE AND EDITORIAL OFFICES
32 Lincoln Ave., Orange, N.J. 07050
(201)673-8030 TWX: 710-994-5839

PUBLISHER
Herman Schlesinger, General Manager

MANAGING TECHNICAL EDITOR & STAFF
Hugh Marriott, *Val DeGeiso*
Chuck Chakravarty, Nance McLemore

MANAGING PRODUCTION EDITOR & STAFF
Jerry D'Allegro, *Valdora Adams,*
Jeanne DelGiudice, Sybble Holcomb

STAFF COORDINATOR
Barbara Sczyglinski

EDITORIAL SECRETARY
Belle Monk

GRAPHICS MANAGER & STAFF
Clint Leinweber, *Ellen Zorn*

PRINTING PRODUCTION & STAFF
Paul Ehrlich, *Derrick Roberts,*
Gregory Uzzolino

D. P. MANAGER & STAFF
Jerry Cohen, *Marie Fitzgerald, Cathy Leicht,*
Gwen Mitchell, Dee Southwell

MARKETING DIR./SALES & STAFF
Harvey Sanderson, *Gail Burnett,*
Pat McGill

ADVERTISING SALES MANAGER
Geraldine Purdy
Direct Line – (201) 673-2466

CUSTOMER SERVICES
Beatrice Ehrlich

ORDER FULFILLMENT MGR. & STAFF
Steve Degenhardt, *Irene Boykewich (Asst.),*
Sherry Knarr, Gloria Patterson,
Sharon Regan, Joanne Schwartz

COPYRIGHT © 1975
by Derivation And Tabulation Associates, Inc., all rights reserved. Reproduction in whole or in part, without written permission, is prohibited.

MICROWAVE TUBE D.A.T.A.BOOK

SPRING 1975 34th EDITION

TABLE OF CONTENTS

HOW-TO-USE INFORMATION

How To Make Maximum Use Of This D.A.T.A.BOOK iv
Use Of Powers-Of-Ten Multipliers And Symbols & Codes In The Technical Section v
How Type Numbers Are Sequenced In The Type Number Cross-Index v
How Type Numbers Are Arranged In The Technical Sections – Sequencing Parameters vi

ACTIVE TYPES

INDEX

1. Type No. Cross-Index .... 2 - 11

TECHNICAL SECTIONS

2. Source, Amplifier, Output Tubes .... 12 - 51
3. Duplexer Tubes .... 52 - 58

SUPPLEMENTARY SECTIONS

4. Manufacturers And Their Type Numbers .... 59 - 64
5. Types With U.S. Military Specifications 65

DISCONTINUED TYPES

INDEX

X1. Type No. Cross-Index .... X2 - X7

TECHNICAL SECTIONS

X2. Source, Amplifier, Output Tubes .... X8 - 31
X3. Duplexer Tubes X32

MANUFACTURERS' SECTIONS

6. Microwave Manufacturers' Local Offices .... 66 - 81
7. Microwave Manufacturers' Codes, Names and Addresses .... 82 - 83
SYMBOLS AND CODES EXPLAINED .... 84 - 85

MICROWAVE TUBE D.A.T.A.BOOK is published semi-annually in March and September by DERIVATION AND TABULATION ASSOCIATES, INC., a Cordura Company.

SUBSCRIPTION RATES: Current rates on Order Card.

CHANGE OF ADDRESS: When sending in change of address, please include old address; preferably the label from the latest edition.

ADVERTISING INQUIRIES: Please address all inquiries to Advertising Sales Manager. For prompt action, call special advertising Hot Line (201)673-2466.

EDITORIAL POLICY & PROCEDURES

Purpose

This D.A.T.A.BOOK is designed to report comprehensively on what is presently being produced throughout the free world in the field of Microwave Tubes. While a book such as this can not provide 100% of the information you might need, its primary aims are those of facilitating the selection of types suitable to your technical requirements, and of directing you to the sources of their manufacture.

Technical Data Acquisition

D.A.T.A. acquires and processes the information presented in this D.A.T.A.BOOK with the cooperation of the participating manufacturers who supply us with their latest technical information. Manufacturers are not charged for the listing of their products.

JEDEC Type Numbers

The electrical, mechanical and environmental characteristics tabulated for the standard JEDEC type numbers are derived directly from the registration releases. The particular manufacturer or manufacturers for whom such types are registered are so indicated by the use of a symbol next to their code(s) in the Type No. Cross-Index. In general, the JEDEC-designated types produced by the various manufacturers, whether registered or not, do conform with the registered specifications; however, there may be exceptions, and it is recommended that the individual manufacturers be consulted.

Military Type Numbers

The electrical, mechanical and environmental information tabulated for the military types in the technical sections is derived directly from the applicable military specifications and standards. The source information, showing the particular manufacturers qualified for each type, is derived from the QPL (Qualified Parts List) associated with the governing specification, or from the manufacturers Qualification Test Letters.

Substitute Types And Compatibility

This D.A.T.A.BOOK can not truly claim to be an interchangeability chart; however, because of the sequencing arrangement of selected characteristics in the technical sections, types with the same or similar characteristics are grouped together. For purposes of replacement, this means of thorough, convenient technical comparison should prove superior to, and safer than, a mere listing of possible substitute type numbers.

Price And Availability

Because of the rapidly-changing and complex nature of this field, current price and delivery information should be obtained direct from the manufacturers. The list of manufacturers and the Local Offices Section in back of the book will assist you in this.

Manufacturers' Specifications

This book includes currently-manufactured devices with their major characteristics, and manufacturers. Every effort is made to ensure the accuracy of the entries herein; however, the publisher can not be held responsible nor guarantee against the possibility of error or omission. Only the manufacturers or their authorized representatives can provide you with complete technical details.

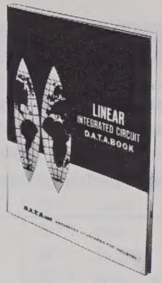
INDEX TO CONTENTS OF THE D.A.T.A.BOOKS

DO YOU HAVE ALL THE D.A.T.A.BOOKS YOU NEED TO DO THE JOB? MEET THE OTHER MEMBERS OF OUR GROWING FAMILY:

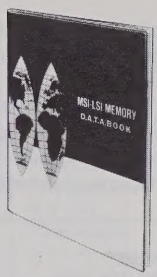
SEMICONDUCTOR SERIES

DI – SEMICON. DIODE

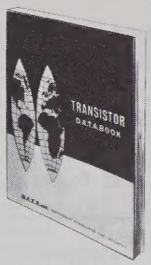
DG – DIGITAL IC



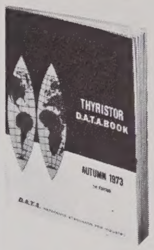
LN – LINEAR IC



SM – MSI-LSI MEMORY



TR – TRANSISTOR



TY – THYRISTOR

TYPE OF DEVICE	D.A.T.A.BOOK					
	DI	DG	LN	SM	TR	TY
Adders						
Analog			x			
Full		x				
Half		x				
AFC Circuits			x			
AM/FM Circuits			x			
Amplifiers						
AGC Circuits			x			
Audio			x			
Current			x			
Differential			x			
IF			x			
Logarithmic			x			
Logic		x				
Operational			x			
Reference			x			
RF			x			
Sense		x	x			
Squaring			x			
Wideband			x			
Character Generators				x		
Comparators						
Binary		x				
Voltage			x			
Converters						
Analog-to-Digital		x				
Code				x		
Digital-to-Analog		x				
Frequency-to-Voltage			x			
Interface		x				
Polarity (Digital)		x				
Frequency			x			
Counters		x				
Decoders		x				
Demultiplexers		x	x			
Diode Arrays	x	x	x			
Diodes						
Current Limiting	x					
General Purpose	x					
Light-Emitting (LEDs)	x					
Log Conversion	x					
Matched Configuration	x					
Microwave Mixer	x					
Microwave Switch	x					
Microwave Video Detector	x					
Freq. Mult. & Harmonic Gen.	x					
Oscillator	x					
Photo (diode)	x					
Radiation Detector	x					
Random/White Noise	x					
Rectifier	x					
Shottky Barrier	x					
Silicon Reference	x					
Solar Cell	x					
Special-Purpose	x					
Step Recovery	x					
Diodes (Cont'd)						
Switching	x					
Tunnel	x					
UHF Detector	x					
UHF Mixer	x					
Varactor	x					
Varistor	x					
Voltage-Variable Capacitor	x					
Voltage Transient Suppressor	x					
Zener	x					
Dividers, Binary		x				
Drivers						
Clock		x				
Incandescent Lamp		x				
Line		x				
Neon Lamp		x				
Relay		x				
Switch		x				
FETs						
N-Channel					x	
P-Channel					x	
FET Switches		x				
Flip-Flops		x				
Gate Expanders		x				
Gates						
AND		x				
Exclusive-NOR		x				
Exclusive-OR		x				
NAND		x				
NOR		x				
OR		x				
Gate Switches, Analog		x				
Generators, Function						
Dividers, Analog			x			
Multipliers, Analog			x			
Sine/Cosine			x			
Inverters		x				
Memories						
CAMS (Content Addressable)				x		
RAMS (Random Access)				x		
ROMS (Read Only)				x		
Mixers			x			
Modulators/Demodulators			x			
Multiplexers		x	x			
Multivibrators		x				
Oscillators						
Sine Wave			x			
VCO Xtal			x			
Phase-Control Circuit			x			
Phase-Locked Loops			x			
Power Supplies						
AC to DC			x			
DC to AC (Inverters)			x			
DC to DC			x			
Receivers, Line		x				
Registers						
Shift				x		
Storage		x		x		
Regulator, Voltage			x			
Ring Modulator			x			
Selectors						
Data		x				
Head		x				
Mode		x				
Special Circuits (Digital)						
Arithmetic		x				
Miscellaneous		x				
Parity		x				
Signal Processing		x				
Stereo Circuits			x			
Temperature-Compensated Voltage Stabilizer			x			
Thyristors						
Diacs						x
Gate Turn -Off Devices						x
Light Activated Switches						x
N-Gate Triodes						x
Reverse Conducting Triodes						x
SCRS						x
Shockley Diodes						x
Sil. Asymmetrical Switches						x
Sil. Bilateral Switches						x
Sil. Controlled Switches						x
Sil. Unidirectional Switches						x
Triacs						x
Time Delays		x				
Transistor Arrays		x	x		x	
Transistors					x	
Avalanche Mode					x	
Bi-Directional					x	
Chips					x	
Choppers					x	
Complementary Symmetry					x	
Composite					x	
Darlington					x	
General-Purpose					x	
Germanium					x	
High-Power					x	
Low-Power					x	
Matched-Pairs					x	
Microwave					x	
NPN					x	
Phototransistors					x	
PNP					x	
Pressure-Sensitive					x	
Radiation-Resistant					x	
Silicon					x	
Unijunction					x	
Triggers, Schmitt		x				
TV Circuits			x			

HOW TO MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK

To make maximum use of this D.A.T.A.BOOK, select the particular known-unknown situation below that defines your problem, and follow the instructions as indicated.

Note: All search procedures apply to both active types and discontinued types unless otherwise indicated.
For active types refer to Sections 1-5.
For discontinued types refer to Sections X1-X2-X3

1	KNOWN: Electrical and Mechanical Requirements UNKNOWN: Suitable Type Numbers a. Turn to any page at random in the applicable technical section (Sect. 2, 3, X2, X3). Note the sequencing parameters (those characteristics for which the data is sequenced) indicated at the top right-hand corner of the page. b. Using the sequencing parameters, locate the type numbers that are in general agreement with your requirements. (Because of the sequencing arrangement, these types will appear together, in groups and sub-groups.) From among these, select the one or ones most suitable. c. To identify the manufacturer of the selected type number(s), follow the instructions in Block 2 below.
2.	KNOWN: Type Number UNKNOWN: Manufacturer(s), Address Local Offices a. Turn to the applicable Type No. Cross-Index (Sections 1 or X1) and locate the subject type number. (Refer to 'HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NUMBER CROSS-INDEX'.) b. Note the 3- or 4-letter manufacturer's code(s); e.g., RCA, GESY, indicated for each of the subject types. c. Use the listing of 'MANUFACTURERS & THEIR CODES' in back of the book to identify the code(s). (Note: Local offices for manufacturers shown in bold print on this listing are identified in a special section in back of the book.)
3	KNOWN: Type Number UNKNOWN: Its Electrical Characteristics a. Turn to the applicable Type No. Cross-Index (Sections 1 or X1), and locate the subject type number. b. Take note of the page and line number; e.g., 20-104, alongside the type number. c. Locate the type number as noted, in the technical sections.
4a	KNOWN; Type Number (Active Only) UNKNOWN: Current Equivalents or Similar Types a. Follow the instructions in Block 3 Above. b. Survey the type numbers surrounding the subject number to determine the suitable alternatives.
4b	KNOWN: Type Number (Discontinued Only) UNKNOWN: Current Equivalents or Similar Types a. Turn to Discontinued Type Number Cross-Index (Section X1) and locate the subject type number. b. Observe whether the subject type has been replaced by another type, and whether the replacement type is itself current (cur) or obsolete (obs). c. If the replacement type is obsolete, look for it in the Discontinued Type Number Cross-Index (Section X1); if current, in the Active Type Number Cross-Index (Section 1). d. If no replacement type is indicated, turn to the discontinued technical section (Sect. X2, X3) and locate the subject type. Then turn to the corresponding active technical section, and survey the type numbers in that section to select a suitable replacement. (In doing this, use the sequencing parameters at the top corner of the page.)
5	KNOWN: Military Requirements UNKNOWN: Suitable Type Number(s) (Active Only) a. Follow the instructions in Block 1, to determine the general type numbers that meet the military requirements. From among these, select the military types by means of the identifying prefix (JAN). b. To identify the manfuacturers, follow the instructions in Block 6.
6	KNOWN: Military Type Number (Active Only) UNKNOWN: Qualified Manufacturers And/Or Applicable Military Specification a. Turn to Section 5 (TYPES WITH U.S. MILITARY SPECIFICATIONS), and locate the subject type number. (Type numbers are arranged in alpha-numeric order.) b. Note the manufacturer's code(s) and detail specification listed next to the type number. (The detail specification added to the general specification indicated in the column heading for the detail specification, makes up the complete military specification for the subject device.) c. Use the listing of MANUFACTURERS & THEIR CODES in back of the book to identify the manufacturer code(s).

USE OF POWERS-OF-TEN MULTIPLIERS AND SYMBOLS & CODES IN THE TECHNICAL SECTIONS

To present a maximum amount of information in a minimum amount of space, use is made in this book of the following data modifiers:

POWERS-OF-TEN MULTIPLIERS

The powers-of-ten multipliers shown below are used in numeric columns when the value being entered is many times greater or smaller than the units of measure indicated in the column heading. Usually, the latter are the so-called 'basic' units; such as V (volts), A (amperes) and s (seconds). The multipliers and an explanation of their use are given below:

MULTIPLIERS

PREFIXES & SYMBOLS Indicating Powers of Ten — Recommended by International Committee on Weights and Measures Adopted by National Bureau of Standards

Power	Prefix	Symbol	Power	Prefix	Symbol	Power	Prefix	Symbol
10^{12}	tera	T	10	deka	da	10^{-9}	nano	n
10^{9}	giga	G	10^{-1}	deci	d	10^{-12}	pico	p
10^{6}	mega	M	10^{-2}	centi	c	10^{-15}	femto	f
10^{3}	kilo	k	10^{-3}	milli	m	10^{-18}	atto	a
10^{2}	hecto	h	10^{-6}	micro	μ			

EXPLANATION

Value of Data To Be Entered	Basic Unit In Column Heading	Actual Entry
3 milliamperes	A (amperes)	3.0m
9 megaohms	Ω (ohms)	9.0M
0.5 volt	V (volts)	500m *
10 amperes	A (amperes)	10

* May also be written as 0.5, with no multiplier

SYMBOLS & CODES

Symbols — Symbols such as #, △, and $ are used in all columns, numeric or otherwise, whenever the data entries differ in some way from the entity defined in the column heading. For instance, if a given heading specifies Max. Power (in Watts) and the numeric value being entered for a given type represents the minimum power instead, the variance is denoted by the appearance of a special symbol alongside the numeric entry.

NOTE: The symbols and codes used herein are explained on the cards in back of the book.

Codes — Codes are used in some columns as means to abbreviate the data being entered. The codes may be alphabetic (A,B,C, etc.) numeric (1,2,3, etc.) or some combination of both.

HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NUMBER CROSS-INDEX

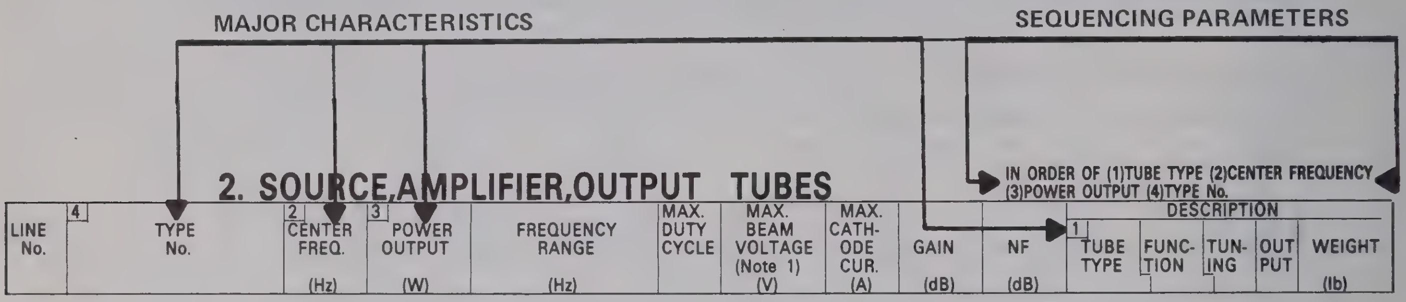
Sequencing of type numbers in the Type Number Cross-Index is governed by the following rules:

	EXAMPLES
Rules: 1) Type numbers are listed in numeric-alphabetic sequence; i.e., type numbers beginning with a number (decimal, fraction, or whole) precede type numbers beginning with a letter.	13A01 143 1202 A147 AN127 B2000
2) Decimals and fractions precede whole numbers. An equivalent decimal precedes the fraction when the remainder of type number is identical.	25Z150 1/4Z150 3/4M12Z 1T3
3) Zeros are ignored in sequencing except when the zero is the only basis for distinguishing one type number from another. In this case the type number containing the zero is listed first.	0112 112 0113 00115 AP01 AP1 AP02
4) Number and/or letter groupings preceding hyphens or slashes are the controlling factors in sequencing. The hyphens and slashes themselves precede any identically positioned letters also having the same beginning number/letter groupings.	66-0706 66M1 70/10 70A9
5) Military prefix (JAN) is ignored in the numeric-alphabetic sequencing of type numbers. A military type number directly follows its equivalent JEDEC type number.	8798 JAN8798

HOW TYPE NOS. ARE ARRANGED IN THE TECHNICAL SECTIONS – SEQUENCING PARAMETERS

NOTE: TO FACILITATE MICROWAVE TUBE SELECTION, TUBE TYPE IS NOW A MAJOR SEQUENCE PARAMETER

The arrangement of types in the technical sections is keyed to a set of special characteristics selected for their importance from among the general group of characteristics tabulated in each section. These selected characteristics, or sequencing parameters, differ from one section to another, and are identified at the top corner of each page, as shown in the sample below.



The different types within a section are first arranged in ascending numeric (or alphabetic) order of the first such parameter. Groups of types having a common value for the first parameter are then arranged in ascending order of the second parameter. This process continues for each parameter in turn, up to and including the last parameter which, in every instance, is the type number itself. The final arrangement, by type number, is done in accordance with the sequencing of type numbers in the cross-index, as explained on the preceding page.

A simplified model of the arrangement as described is shown below.

4 Type Number	Characteristics			
	1 A	2 B	C	3 D
A13	100		325	
A4	100		1000	20
A9	100	A	20	25
A10	100	A	200	25
A3	100	B	40	15
A1	100	C	80	10
A8	100	C	900	15
A7	100	D	35	30
A11	110	A	60	25
A2	120	A	300	15
A5	120	B	150	20
A6	120	B	200	20
A12	120	B	475	25
Last Seq. Par.	1st Seq. Par.	2nd Seq. Par.	(Not Seq.)	3rd Seq. Par.

Note that the absence of an entry for any sequencing parameter is regarded as a zero, and precedes any actual entries in the sequencing.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
.1P.5-1	MIT	28- 50
.1P.35-1	MIT	28- 46
.25PL.4-1.2	MIT	28- 62
.25PL.4-1.2S	MIT	28- 63
.25P.25-.75	MIT	28- 36
.25P.25-.75S	MIT	28- 37
.25P.35-1	MIT	28- 47
.25P.35-1S	MIT	28- 48
.5L1-2	MIT	29- 45
.5LS1-3	MIT	29- 65
.5LS1-3S	MIT	29- 66
.5LS1.2-3.6	MIT	29- 78
.5LS1.2-3.6S	MIT	29- 79
.5LS1.5-3	MIT	29- 71
.5PL.5-1.5	MIT	28- 81
.5PL.5-1.5S	MIT	28- 82
.5PL.8-2.4	MIT	29- 54
.5PL.8-2.4S	MIT	29- 55
.5P.2-.4	MIT	28- 21
.5P.2-.4S	MIT	28- 22
.5P.5-1	MIT	28- 52
.5P.5-1.5	MIT	28- 80
.5P.25-.5	MIT	28- 24
.5P.25-.5S	MIT	28- 25
1AV30	NECJ	25- 26
1AV31	NECJ	25- 59
1AV32	NECJ	25-100
1AV35	NECJ	25- 54
1AV48	TOSJ	25- 35
1AV50	NECJ	25- 27
1AV51	NECJ	25- 82
1AV52	NECJ	25-101
1AV56	TOSJ	25- 34
1AV57	NECJ	25- 31
1AV58	NECJ	25- 55
1AV59	NECJ	25- 84
1AV60	♦NECJ	25- 29
1AV61	♦NECJ	25- 61
1AV62	NECJ	25-102
1AV67	NECJ	26-101
1AV68	NECJ	27- 3
1AV69	NECJ	27- 17
1AV81	TOSJ	15- 16
1AV83	TOSJ	27- 6
1AV88	TOSJ	27- 5
1AV95	TOSJ	15- 17
1AV97	NECJ	26-110
1AV98	NECJ	27- 4
1AV99	NECJ	27- 18
1B23	♦VET	53-102
JAN1B23	VET	53-101
1B24A	♦NJRC	55- 81
♦THC	TOSJ	
	♦VET	
JAN1B24A	OWE	55- 82
	VET	
1B24A/MXT14	OWE	55- 86
1B27	♦NJRC	54- 31
♦THC	♦VET	
JAN1B27	VET	54- 77
1B27/MST13	OWE	54- 67
1B35A	♦NJRC	52- 3
♦THC	TOSJ	
	♦VET	
JAN1B35A	OWE	52- 67
	VET	
1B35A/MXA14	OWE	52- 68
1B37A	♦THC	52- 46
	♦VET	
JAN1B37A	OWE	52- 47
	VET	
1B37A/MXA19	OWE	52- 48
1B38	♦THC	53- 17
1B38/MST26	OWE	53- 16
1B44	♦VET	52- 9
1B44/MSA12	OWE	52- 10
1B51/MCA14	OWE	52- 45
1B52/MSA21	OWE	52- 34
1B53/MSA15	OWE	52- 32
1B54	♦VET	53- 29
JAN1B54	VET	53- 30
1B54/MST27	OWE	53- 31
1B55/MST18	OWE	54- 98
1B56	♦VET	52- 16
1B56/MSA11	OWE	52- 17
1B58A	♦NJRC	54- 38
♦THC	♦VET	
JAN1B58A	MIC	54- 39
	VET	
1B58A/MST12	OWE	54- 40
1B63A	♦NJRC	55- 64
♦THC	TOSJ	
	♦VET	
JAN1B63A	MIC	55- 71
OWE	VET	
1B63A/MXT15	OWE	55- 72
1B63B	♦VET	55- 91
1K75CH	VAR	16-108
1K75CK8199	♦VAR	17- 5
1K75CK	VAR	16-109
1K75CLA	VAR	17- 9
1K75CS	VAR	17- 8
1K125CA	VAR	16-104
1K125CB	VAR	17- 18
1K125CB-B	VAR	17- 22
1K125CD	VAR	17- 20
1L1-2R	MIT	29- 46
1M70A	TOSJ	28- 76
1M99	NJRC	28- 77
1P.5-1	MIT	28- 53
1P.5-1R	MIT	28- 54
1P.5-1S	MIT	28- 55
1P.25-.5	MIT	28- 26
1P.25-.5S	MIT	28- 27
1P.375-.75	MIT	28- 38
1P.375-.75S	MIT	28- 39
1W20	NECJ	39- 33
1W20A	NECJ	39- 20
1W31	HITJ	39- 3
1W50	NJRC	39- 6
	TOSJ	
1W65	HITJ	39- 4
1W67	HITJ	39- 23
1W80	HITJ	39- 7
NECJ	TOSJ	
2AV30	TOSJ	27- 56
2AV41	NECJ	26- 98
2C4-6S	MIT	32- 15
2C6-7S	MIT	32- 90
2J30	RTN	30- 90
JAN2J30	none	30- 89
2J31	RTN	30- 80
JAN2J31	none	30- 79
2J32	RTN	30- 57
JAN2J32	none	30- 56
2J33	RTN	30- 42
JAN2J33	none	30- 41
2J34	RTN	30- 34
JAN2J34	none	30- 33
2J42	APX	34- 77
EEVB	LIT	
MIC	NJRC	
RTN	TOSJ	
JAN2J42	EEVB	34- 75
	LIT	
2J42A	NJRC	34-106
2J42A-6027	NJRC	34-107
2J42H	EEVB	34- 74
LIT	MIC	
NJRC	RTN	
	TOSJ	
JAN2J42H	LIT	34- 73
JAN2J49	none	33- 88
2J50	RTN	33- 34
JAN2J50	none	33- 35
2J51	NJRC	33- 54
	♦THC	
2J51A	MOVB	33- 49
NJRC	RTN	
JAN2J51A	none	33- 56
2J53	RTN	35- 15
2J55	APX	35- 16
EEVB	NECJ	
NJRC	RTN	
♦THC	TOSJ	
JAN2J55	EEVB	35- 17
2J70A	♦EEVB	31- 33
NJRC	RTN	
2J70B	NJRC	31- 34
	RTN	
2K22	RTN	17- 12
JAN2K22	none	17- 11
2K25	♦ALGG	19- 81
APX	NECJ	
NJRC	RTN	
	TOSJ	
JAN2K25	none	16- 1
2K25A	♦THC	19- 74
2K26	NECJ	17- 90
NJRC	RCA	
RTN	TOSJ	
2K28	EEVB	16- 75
RTN	♦THC	
JAN2K28	none	16- 89
2K28A	RTN	16- 71
2K29	RTN	16- 92
2K39	SPY	19- 42
2K41	SPY	16- 77
JAN2K41	SPY	15- 67
2K42	SPY	16- 94
2K43	SPY	17- 24
2K44	SPY	17- 86
2K45	NJRC	19- 77
	RTN	
JAN2K45	none	15-110
JAN2K48	BTC	18- 80
2K54A	NECJ	16-107
2K54C	NECJ	16- 95
2K54DA	NECJ	17- 3
2K56	RTN	16-106
2L1-2	MIT	29- 47
2L1-2S	MIT	29- 48
2LS1.5-3	MIT	29- 73
2LS1.5-3S	MIT	29- 74
2M12	NJRC	30- 22
2M21	TOSJ	30- 1
2M41	NJRC	29- 94
2M45	HITJ	29- 91
2M47	NJRC	30- 15
2M53	APX	29-101
	TOSJ	
2M53H	HITJ	29-103
2M57	TOSJ	29-104
2M57A	TOSJ	29-105
2M60A	TOSJ	30- 23
2M63	TOSJ	30- 16
2M66	APX	29- 95
2M68	TOSJ	30- 27
2M69	TOSJ	30- 11
2M76	NJRC	29- 82
2M88	APX	29-108
2M121	HITJ	30- 4
2M131	HITJ	30- 12
2M140	HITJ	29- 85
2M141	HITJ	29- 87
2M143	HITJ	29- 88
2M150	HITJ	29- 93
2M151	TOSJ	29- 89
2M151A	TOSJ	29- 92
2M152	TOSJ	29- 86
2M161	HITJ	29-106
2M163	HITJ	29-107
2M164	TOSJ	30- 8
2PL.75-1.5	MIT	28- 89
2PL.75-1.5S	MIT	28- 90
2P.5-1	MIT	28- 56
2P.5-1S	MIT	28- 57
2S2-4	MIT	31- 9
2S2-4S	MIT	31- 10
3K3000LQ	EEVB	24- 97
3K50000LF	EEVB	24- 96
3K210000LQ	VAR	24- 98
3KM3LB	VAR	24- 93
3KM300LA	♦VAR	24- 92
3KM3000LA	VAR	24- 94
3KM50000PA	VAR	24- 91
3L1.4-1.6	MIT	29- 49
3L1.8-2.1	MIT	29- 64
3M90	NJRC	31- 5
3M95	TOSJ	30- 65
3S2.8-3.1	MIT	30-101
4J31	EEVB	30- 92
	RTN	
4J32	EEVB	30- 82
	RTN	
4J33	EEVB	30- 62
	RTN	
4J34	EEVB	30- 45
	RTN	
4J35	EEVB	30- 36
	RTN	
4J36	RTN	32- 3
4J37	RTN	31-110
JAN4J38	none	31-108
4J43	EEVB	31- 24
4J44	EEVB	30-110
4J50	APX	35- 37
	LIT	
4J50TO	♦THC	33- 67
4J50TR	♦THC	33- 68
4J52	APX	35- 23
4J52A	APX	35- 25
EEVB	LIT	
	NJRC	
JAN4J52A	LIT	35- 26
4J53	EEVB	30- 67
4J57	RTN	32- 95
JAN4J57	none	32- 96
4J58	RTN	32- 88
JAN4J58	none	32- 89
4J59	RTN	32- 86
JAN4J59	none	32- 87
4K3CB	VAR	26- 53
4K3SJ	VAR	26- 17
4K3SK	VAR	26- 26
4K3SL	VAR	26- 16
4K3SN	VAR	26- 42
4K5SL1	VAR	26- 19
4K200LW	VAR	26- 6
4K200LX	VAR	26- 7
4KM50LB	VAR	25- 19
4KM50LC	VAR	25- 18
4KM50SI	VAR	26- 23
4KM50SJ	VAR	26- 21
4KM50SK	VAR	26- 28
4KM70LA	VAR	25- 41
4KM70LF	VAR	25- 68
4KM70LH2	VAR	25-109
4KM70LH	VAR	25-105
4KM70SJ	VAR	26- 22
4KM70SK	VAR	26- 29
4KM100LA	STCB	25- 43
	VAR	
4KM100LF	STCB	25- 70
	VAR	
4KM100LH	STCB	25-106
	VAR	
4KM150LA	VAR	25- 52
4KM150LB	VAR	25- 21
4KM150LF	VAR	25- 77
4KM150LH1	VAR	25-110
4KM150LH	VAR	25-108
4KM3000LR	VAR	25-103
4KM50000LA3	VAR	25- 23
4KM50000LA5	VAR	25- 24
4KM50000LQ	EEVB	25-104
	VAR	
4KM50000LR	EEVB	26- 3
	VAR	
4KMP300LU	VAR	25- 1
4KMV150LH1	VAR	25- 83
4KP3SN	VAR	26- 43
4V27	NECJ	16-103
4W70	NECJ	42-110
4W76A	NECJ	43- 43
4W77	NECJ	43- 36
4W81	NECJ	43- 6
5C4-5S	MIT	32- 12
5C4.5-5.5S	MIT	32- 16
5C5-6S	MIT	32- 34
5C5.4-5.9S	MIT	32- 60
5C5.5-6.5S	MIT	32- 83
5C6-7S	MIT	32- 91
5J26	APX	28-108
NJRC	RTN	
	♦THC	
JAN5J26	APX	28-110
5K50SE	VAR	27- 46
5K50SG	VAR	27- 53
5K70SG	VAR	27- 50
5K70SH1	♦VAR	27- 55
5K300SK	VAR	27- 58
5KM50SJ	VAR	27- 47
5KM70SI	VAR	27- 49
5KM70SJ	VAR	27- 48
5KM300SI	VAR	27- 52
5KM1000SG	VAR	27- 54
5L1-2	MIT	29- 50
5L1-2S	MIT	29- 51
5M20	NJRC	32- 22
5PL.6-1.2	MIT	28- 71
5PL.6-1.2S	MIT	28- 72
5P.4-.8	MIT	28- 40
5P.4-.8S	MIT	28- 41
5P.35-.5	MIT	28- 29
5P.35-.5S	MIT	28- 30
5S2.7-2.85	MIT	30- 47
5S3.4-3.7	MIT	31-106
5W70	NECJ	43- 66
5X10	TOSJ	55- 3
6BL6	NJRC	16-102
RTN	♦THC	
JAN6BL6	LIT	16- 86
6BM6	NJRC	16- 65
RTN	♦THC	
JAN6BM6	LIT	16- 52
6BM6A	NJRC	16- 66
	RTN	
JAN6BM6A	LIT	16- 53
6M70	TOSJ	32- 36
6M72	TOSJ	32- 37
6V23	NECJ	17- 48
6V26AMR	NECJ	17- 74
6V26AR	NECJ	17- 73
6V26BMR	NECJ	17- 55
6V26BR	NECJ	17- 54
6V200	NECJ	17- 67
6V203	NECJ	17- 81
6V211	NECJ	17- 52
6V212	NECJ	17- 77
6V221	NECJ	17- 51
6V222	NECJ	17- 70
6W52	NECJ	45- 38
6W70	NECJ	45- 51
6W401	TOSJ	45- 29
6W411	TOSJ	45- 35
6W411V	TOSJ	45- 36
7V40	TOSJ	18- 71
7V204	NECJ	18- 6
7V205	NECJ	18- 35
7V213	NECJ	17- 87
7V214	NECJ	18- 23
7V215	NECJ	18- 45
7V216	NECJ	18- 61
7V223	NECJ	17- 82
7V224	NECJ	18- 7
7V225	NECJ	18- 36
7V226	NECJ	18- 51
7V242	NECJ	18- 27
7V243	NECJ	18- 75
7V254	NECJ	18- 8
7V272	NECJ	18- 17
7V273	NECJ	18- 76
7V312	TOSJ	18- 41
7W402	TOSJ	46- 35
7W412	TOSJ	46- 36
7W412V	TOSJ	46- 37
8V69	NECJ	18- 92
8V77	NECJ	18-103
8V208	NECJ	18-104
8V217	NECJ	18- 96
8V227	NECJ	18- 87
8V228	NECJ	18-105
8V257	NECJ	18- 88
8V274	NECJ	19- 4
8W23	TOSJ	46- 89
8W403	TOSJ	46- 80
8W413	TOSJ	46- 82
8W413V	TOSJ	46- 83
9M20	NJRC	34- 51
9M30	NJRC	34- 52
9M31	NJRC	35- 72
	TOSJ	
9M40	NJRC	35- 2
	TOSJ	
9M61	NJRC	35- 61
	TOSJ	
9M62	TOSJ	34- 94
9M62A	TOSJ	34- 92
9M64A	TOSJ	35- 56
9M65	TOSJ	35- 82
9M66	TOSJ	35- 84
9M70	NJRC	35- 54
9M71	NJRC	34- 87
9M72	NJRC	35- 69
	TOSJ	
9M73	TOSJ	35- 18
9M80	NJRC	35- 57
9M90	NJRC	35- 65
	TOSJ	
9V10	TOSJ	19- 46
9V54	NECJ	19- 41
9V58	NECJ	20- 6
9X63	♦NJRC	55- 73
9X64	♦NJRC	56- 43
	TOSJ	
10C4-5	♦MIT	32- 13
10C4.5-5.5	♦MIT	32- 17
10C5-6	♦MIT	32- 35
10C5.5-6.5	♦MIT	32- 84
10C6-7	♦MIT	32- 92
10C6.5-7.5	♦MIT	32- 99
10L1-1.5	MIT	28- 98
10L1-1.5S	MIT	28- 99
10L1.5-2	MIT	29- 52
10L1.5-2S	MIT	29- 53
10M10	NJRC	35-106
10P.5-.75	MIT	28- 44
10P.5-.75S	MIT	28- 45
10P.75-1	MIT	28- 66
10P.75-1S	MIT	28- 67
10S2-3	MIT	30- 30
10S2-3S	MIT	30- 31
10S2.5-3R	MIT	30- 38
10S2.5-3.5	MIT	31- 11
10S2.5-3.5S	MIT	31- 12
10S3-4	MIT	31- 99
10S3-4S	MIT	31-100
10S3.5R	MIT	31- 86
10SC3.5-3.5S	MIT	32- 4
10SC3.5-4.5	MIT	32- 5
10V13	NECJ	20- 88
10V54	NECJ	20- 71
10X7-8	♦MIT	32-104
10X7.5-8.5	♦MIT	32-109
10X8-9	♦MIT	33- 15
10X8.5-9.6	♦MIT	33- 48
10X9-10	♦MIT	35- 98
11V18	NECJ	20- 97
11V53A	NECJ	21- 12
11V54	NECJ	21- 8
	TOSJ	
11V54A	TOSJ	21- 13
11V64	NECJ	21- 15
11V66	NECJ	20-102
11V651	NECJ	21- 2
11V652	NECJ	21- 26
11W71	NECJ	50- 17
11W72	NECJ	50- 14
12V25	TOSJ	21- 40
12V26	TOSJ	21- 41
12V66	NECJ	21- 39
13V64	NECJ	21- 63
13V66/LD932	NECJ	21- 64
13V92	NECJ	21- 85
15V66	NECJ	21- 89
15W71	NECJ	51- 9
16M10	♦NJRC	38- 12
17V10	OKIJ	22- 12
20V10	OKIJ	22- 18
22V10	OKIJ	22- 21
24V10A	OKIJ	22- 34
24V11	OKIJ	22- 35
25M10	NECJ	36-101
28V12	OKIJ	22- 39
30V10	OKIJ	22- 41
30V11	OKIJ	22- 42
30V12	OKIJ	22- 43
33V10	OKIJ	22- 50
34V12	OKIJ	22- 55
35V10	OKIJ	22- 56
35V11	OKIJ	22- 57
35V12	OKIJ	22- 67
36V12	OKIJ	22- 68
40V10	OKIJ	22- 72
40V12	OKIJ	22- 73
45V10	OKIJ	22- 74
45V12	OKIJ	22- 75
47V10	OKIJ	22- 76
47V11	OKIJ	22- 77
47V12	OKIJ	22- 78
50C6-7	♦MIT	32- 93
50C6.5-7.5	♦MIT	32-100
50S2.5-3.5	MIT	31- 14
50S3-4	MIT	31-101
50V10	OKIJ	22- 79
50V11	OKIJ	22- 80
50X7-8	♦MIT	32-105
50X7.5-8.5	♦MIT	33- 2
50X8-9	♦MIT	33- 16
50X8.5-9.5	♦MIT	33- 42
50X9-10	♦MIT	35-100
55V10	OKIJ	22- 86
55V11	OKIJ	22- 87
60V10	OKIJ	22- 94
60V12	OKIJ	22- 95
70V10	OKIJ	22-107
70V11A	OKIJ	22-110
80V10A	OKIJ	23- 15
80V11	OKIJ	23- 16
80X8-8.5	♦MIT	33- 12
80X8.5-9	♦MIT	33- 20
80X9-9.5	♦MIT	34- 12
80X9.5-10	♦MIT	36- 19
90V10A	OKIJ	23- 28
90V11	OKIJ	23- 29
100C3.8-4.4	♦MIT	32- 6
100C4.4-5	♦MIT	32- 14
100C4.8-5.4	♦MIT	32- 19
100C5.4-5.9	♦MIT	32- 61
100C5.9-6.4	♦MIT	32- 85
100C6.2-6.8	♦MIT	32- 94
100C6.8-7.4	MIT	32-101
100L1-1.2	♦MIT	28- 88
100L1.05-1.25		28- 91
	♦MIT	
100L1.05-2.5	MIT	28- 92
100L1.25-1.5	♦MIT	29- 43
100L1.5-1.8	♦MIT	29- 57
100L1.6-2	♦MIT	29- 61
100S2-2.6	♦MIT	29- 77
100S2.5-3	MIT	30- 39
100S2.6-3.2	♦MIT	30- 95
100S3-3.5	MIT	31- 87
100S3.2-3.8	♦MIT	31-102
100V10A	OKIJ	23- 42
100V11	OKIJ	23- 43
100X7.4-8.0	♦MIT	32-106
105V10	OKIJ	23- 49
120V10	OKIJ	23- 61

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
125V10	OKIJ	23-70
203B	VET	19-57
203J	VET	19-58
214H	♦HAC	40-71
219H	♦HAC	47-63
233H	HAC	43-35
235H	HAC	43-38
239H	HAC	40-65
240H	♦HAC	46-84
242H	HAC	40-66
254H	♦HAC	51-96
256H	HAC	40-68
261H	♦HAC	43-48
262H	♦HAC	43-81
263H	♦HAC	46-76
265H	♦HAC	47-9
267H	HAC	51-86
268H	♦HAC	51-88
271H	♦HAC	43-29
272H	♦HAC	43-24
275H	♦HAC	42-108
276H	♦HAC	43-23
277H	♦HAC	43-27
279H	HAC	45-31
280H	HAC	50-29
283H	HAC	40-73
284H	HAC	50-74
285H	♦HAC	47-58
287H	♦HAC	47-27
288H	♦HAC	51-8
291H#1	♦HAC	40-14
291H#2	♦HAC	40-15
291H#3	♦HAC	40-16
292H	HAC	51-85
293H	HAC	46-85
294H	♦HAC	50-73
295H	HAC	50-106
296H	♦HAC	43-26
297H	HAC	40-87
298H	HAC	46-78
307H	♦HAC	48-55
308H	♦HAC	48-66
310H	HAC	48-106
414H	♦HAC	40-31
JAN417C	VAR	15-68
417H	HAC	39-94
417HD	♦HAC	39-95
418H	HAC	39-96
419H	HAC	40-32
543H	HAC	41-48
544H	HAC	42-24
551H	♦HAC	41-108
554H	♦HAC	41-109
555H	♦HAC	42-15
559H	♦HAC	42-63
560H	HAC	42-64
562H#1	♦HAC	41-96
562H#2	♦HAC	41-110
564H	HAC	41-64
564HD	♦HAC	41-65
568H	HAC	44-88
570H	HAC	42-19
614H	♦HAC	45-91
618H	HAC	45-22
621H	♦HAC	44-19
622H	♦HAC	44-20
634H	♦HAC	43-104
635H	♦HAC	43-107
636H	HAC	43-71
639H	HAC	45-24
640H	HAC	44-95
641H	♦HAC	45-23
644H	HAC	45-45
648H	HAC	46-61
648HD	♦HAC	44-89
648HS	HAC	46-62
656H	♦HAC	45-18
662H	HAC	45-43
710H	♦HAC	48-54
718H	HAC	47-80
719H	♦HAC	48-90
JAN721B	VET	54-59
722H	HAC	47-75
723A/B	♦ALGG	19-85
723H	HAC	47-76
724B	♦NJRC	56-9
725A	APX	34-79
NJRC	RTN	
	TOSJ	
725H	HAC	48-63
726B	RTN	16-79
JAN726B	none	16-78
726C	RTN	16-74
JAN726C	none	16-73
739H	HAC	47-78
745H	♦HAC	47-33
748H	HAC	48-85
750H	♦HAC	49-1
751H	♦HAC	48-81
752H	♦HAC	47-81
756H	♦HAC	47-13
757H	♦HAC	49-12
759H	HAC	38-94
760H	♦HAC	48-86
763H	HAC	38-97
767H	♦HAC	47-36
771H	♦HAC	49-84
771HD	♦HAC	49-85
771HS	HAC	49-55
774H	♦HAC	50-61
776H	HAC	49-69
781H	♦HAC	48-109
783H	HAC	49-58
784H	♦HAC	47-39
785H01	HAC	50-32
785H02	HAC	46-104
786H	♦HAC	49-5
790H	HAC	49-15
792H	♦HAC	47-38
796H	♦HAC	49-2
812H	HAC	51-102
813H	HAC	51-103
814H	HAC	51-105
817H	HAC	51-67
819H	HAC	51-104
820H	♦HAC	51-81
830H	♦HAC	51-74
832H	HAC	51-76
835H	♦HAC	51-71
837H	♦HAC	50-83
838H	HAC	51-72
839H	HAC	51-73
844H	HAC	51-80
848H	HAC	51-7
848HD	♦HAC	51-49
848HS	HAC	50-110
851H	♦HAC	39-71
856H	HAC	39-102
861H	♦HAC	51-83
863H	HAC	51-101
866H	HAC	51-82
911H	HAC	51-91
912H	HAC	51-98
1160H	♦HAC	42-22
1177H01F	♦HAC	41-66
1177H02F	♦HAC	44-90
1177H03F003	♦HAC	50-33
1177H03F005	♦HAC	46-105
1177H03F007	♦HAC	50-76
1177H03F	♦HAC	49-86
1177H04F	♦HAC	51-50
1177H05F	♦HAC	42-47
1177H06F	♦HAC	46-63
1177H07F	♦HAC	49-56
1177H08F	♦HAC	39-74
1177H09F	♦HAC	39-97
1177H10F	♦HAC	40-33
1190H	♦HAC	40-67
1192H	HAC	40-58
1195H	HAC	42-42
1197H	HAC	42-1
1200H	♦HAC	46-74
1202H	♦HAC	47-10
1210H	HAC	45-37
1212H	HAC	51-87
1216H	♦HAC	42-46
1218H	HAC	50-109
1220H	♦HAC	39-72
1222H	HAC	45-40
1224H	♦HAC	43-47
1226H	HAC	40-69
1233H	♦HAC	41-62
1234H	♦HAC	44-96
1235H	♦HAC	49-82
1236H	♦HAC	51-48
1277H01F	♦HAC	41-72
1277H02F	♦HAC	44-97
1277H03F	♦HAC	49-90
1277H04F001	HAC	50-105
1277H04F002	HAC	51-84
1277H04F	♦HAC	51-56
1277H09F	♦HAC	39-103
5586	APX	30-63
EEVB	NJRC	
RTN	♦THC	
JAN5586	APX	30-52
5609	NJRC	29-80
5609A	RTN	29-81
5657	APX	31-18
EEVB	RTN	
	♦THC	
JAN5657	APX	31-15
5721	NECJ	18-29
	RTN	
JAN5721	BTC	18-58
5780	LIT	33-78
	NECJ	
JAN5780	LIT	33-79
5789	MIC	36-110
5792	♦VET	52-18
5792/MSA16	OWE	52-19
5793	♦VET	52-24
5793/MSA17	OWE	52-25
5795	NECJ	31-90
	RTN	
JAN5795	none	31-91
5836	RTN	16-100
JAN5836	none	16-87
5837	RTN	16-64
	♦THC	
JAN5837#1	none	16-47
JAN5837#2	none	16-62
JAN5837#3	none	16-49
JAN5837#4	none	16-70
5853	♦THC	54-71
	♦VET	
5853/MST23	OWE	54-72
5863	♦NJRC	55-79
JAN5863	MIC	55-66
OWE	VET	
JAN5864	MIC	52-79
OWE	VET	
5864/ATR321	♦VET	52-78
5865	♦VET	55-34
JAN5865	VET	55-35
5865/MCT32	OWE	55-36
5865/TR361	♦NJRC	55-19
5866/MST15	OWE	54-64
5883	♦VET	52-53
5921	♦VET	52-26
JAN5921	OWE	52-28
	VET	
5921/MSA18	OWE	52-27
5922	♦VET	52-29
JAN5922	OWE	52-31
	VET	
5922/MSA19	OWE	52-30
5925	♦NJRC	54-106
5927	♦THC	54-90
	♦VET	
JAN5927	OWE	54-91
	VET	
5927/MST21	OWE	54-86
5939A	♦NJRC	53-3
	♦VET	
5976	NECJ	18-18
	RTN	
5981	RTN	16-51
JAN5981	none	16-50
6002	NJRC	34-54
	RTN	
JAN6002	none	34-53
6022	♦NJRC	52-35
	♦VET	
6022/MCA13	OWE	52-36
6024	♦VET	52-12
JAN6024	VET	52-11
6024/ATR387	♦NJRC	52-13
6024/MSA20	OWE	52-14
6027	EEVB	34-108
MIC	NJRC	
6027H	APX	35-3
	EEVB	
6033	♦VET	52-69
6034	♦VET	52-49
6043	RTN	16-82
6081	♦VET	52-40
JAN6081	OWE	52-39
	VET	
6081/ATR408	♦NJRC	52-41
6081/MCA11	OWE	52-42
6115A	NJRC	17-31
	RTN	
JAN6115A	none	17-30
6116	RTN	19-78
	♦THC	
6117	ΔVET	54-36
6117/MST11	OWE	54-41
6133	RTN	16-72
JAN6133	none	15-84
6144	ΔSGN	38-55
JAN6162	OWE	52-59
	VET	
6162/ATR388	♦NJRC	52-60
	♦VET	
6163	♦VET	52-56
JAN6163	none	52-57
6177	NJRC	32-9
6177A	RTN	32-10
JAN6177A	none	32-11
6214	♦VET	52-80
6229	MIC	33-93
	NJRC	
6230	MIC	33-101
6233	ΔLIT	34-46
JAN6233	none	34-49
6236	ΔRTN	17-42
JAN6236	BTC	17-45
6248	RTN	33-28
JAN6248	none	33-29
6260	♦VET	53-2
6276	♦VET	52-63
6282	ΔVET	56-83
6304	ΔVET	52-70
6304/BL43	♦VET	52-71
6310	ΔVAR	19-106
RTN	VARC	
	VET	
JAN6310	OWE	19-93
	VET	
6310/MXK14	OWE	19-89
6312	ΔVAR	19-107
RTN	VARC	
	VET	
JAN6312	VET	16-2
6312/MXK15	OWE	19-90
6314	ΔVAR	20-48
	♦THC	
6314/MXK16	OWE	19-91
6315	ΔVAR	19-100
JAN6315	none	19-96
6316	ΔVAR	19-94
	VET	
6322	ΔVET	53-106
♦NJRC	♦THC	
JAN6322	OWE	53-107
	VET	
6322/BL25	♦VET	53-104
6322/MLT11	OWE	53-108
6334	ΔVET	55-75
	♦THC	
6334/BL27	♦VET	57-35
6344	♦ALGG	32-55
	NJRC	
6344-QKH235	NJRC	32-47
6344A	LIT	32-53
	RTN	
JAN6344A	LIT	32-43
6356	ΔSGN	38-68
6357	ΔSGN	38-81
6358	ΔSGN	38-59
6359	ΔSGN	38-90
6369	♦VET	52-50
6378	ΔVET	56-23
	♦NJRC	
JAN6378	OWE	55-83
	VET	
6378/BL62	♦VET	55-84
6378/MXT20	OWE	55-87
6390	ΔRTN	19-39
	VAR	
JAN6390	BTC	20-70
6393	ΔVET	52-64
6396	♦NJRC	52-72
6402	RTN	31-103
JAN6402	none	31-98
6406A	NECJ	30-88
	RTN	
6410A	RTN	30-69
	TOSJ	
JAN6410A	none	30-70
6455	ΔVET	52-43
6455/MCA12	OWE	52-44
JAN6460	VAR	17-46
6510	LIT	35-27
JAN6510	LIT	35-28
6517	RTN	29-12
JAN6517	none	29-20
6521	Δ♦RCA	32-27
APX	TOSJ	
6521A	ΔRCA	32-28
6543	LIT	33-57
JAN6543	LIT	33-58
6543A	LIT	33-59
6551	VET	36-97
JAN6551	none	36-99
6560	ΔVET	57-56
JAN6560	MIC	57-57
OWE	VET	
6560/BL35	♦VET	57-58
6564	ΔVET	55-109
	♦THC	
6564/BL71	♦VET	57-39
6565	ΔVET	56-28
6568	ΔVET	55-50
6568/MCT17	OWE	55-51
JAN6584	none	17-32
6589	APX	31-96
6591	♦VET	52-37
6591/MCA10	OWE	52-38
6592	ΔVET	54-107
6592/MCC10	OWE	54-105
6593	ΔVET	55-80
6593/MXC11	OWE	55-62
6594	ΔVET	55-37
6594/BL311	♦VET	55-38
6594/MCC1	OWE	55-39
6595	ΔVET	55-88
6596	ΔVET	57-26
	♦THC	
6596/BL317	♦VET	57-44
6597	ΔVET	55-76
6599	ΔVET	57-20
6601	ΔVET	57-27
6602	ΔVET	54-87
6602/MSC10	OWE	56-96
6604	ΔVET	57-28
6605	ΔVET	53-4
6605/BL96A	♦VET	53-5
6605/MLT23	OWE	53-6
6613/BL324	♦VET	57-45
6615	♦THC	55-77
6615/BL312	♦VET	56-15
6616	ΔVET	55-78
6624	♦VET	54-109
6624/MCT18	OWE	54-110
6629	ΔVET	52-54
6630	ΔVET	52-81
6631	ΔVET	52-51
6632	ΔVET	53-110
6632/MLT24	OWE	54-1
6633	ΔVET	54-3
6633/MLT17	OWE	54-4
6634/MLT25	OWE	56-95
6635	ΔVET	54-26
6635/MST18	OWE	54-27
6636	ΔVET	56-97
6636/BL87	♦VET	56-98
6636/MST24	OWE	56-99
6637	ΔVET	54-32
6637/MST29	OWE	56-104
6638/MST30	OWE	56-105
6639	ΔVET	55-10
6639/BL46	♦VET	55-11
6639/MCT14	OWE	55-12
6640	ΔVET	57-4
	♦THC	
6640/BL60	♦VET	57-5
6640/MCT16	OWE	57-6
6641	ΔVET	56-108
6641/BL86	♦VET	56-107
6642	ΔVET	57-29
6644	ΔVET	55-67
6644/BL95	♦VET	55-89
6645	ΔVET	55-68
6645/BL95H	♦VET	55-90
6645/MXT61	OWE	55-69
6646	ΔVET	57-22
6646/BL604	♦VET	57-34
6646/MXT70	OWE	55-70
6647	ΔVET	57-23
6648	ΔVET	57-21
6649	ΔVET	56-61
6650	ΔVET	53-56
6684	SGN	12-7
6685	ΔVET	57-74
6780	VET	20-11
6780/MXK47	OWE	19-63
6781	♦THC	20-10
	VET	
JAN6781	OWE	19-97
	VET	
6781/MXK11	OWE	19-92
6782	ΔSGN	38-63
6795	♦VET	56-24
JAN6795A	none	56-7
6795A/MXT12	OWE	56-8
6805	VAR	57-24
6845	RTN	19-79
6861	EEVB	42-35
	TOSJ	
6881	ΔSGN	38-49
6882	ΔSGN	38-82
6890	VET	52-65
6890/BL650	♦VET	52-66
6904	ΔVET	57-30
6905	ΔVET	57-15
6905/BL613	♦VET	57-16
6905/MCT10	OWE	57-17
6906	ΔVET	55-22
6906/BL643	♦VET	55-23
6906/MCT26	OWE	55-24
6915	VARC	19-108
6940	NJRC	19-75
6959	RTN	34-82
JAN6962	none	52-5
6962/BL665	♦VET	52-6
6967A	RTN	34-9
6975	ΔVAR	19-67
NECJ	♦THC	
VARC	VET	
JAN6975	VET	19-59
6975/MXK21	OWE	19-64
JAN6995	VAR	21-107
7006	LIT	34-41
JAN7006	none	34-44
7008	APX	33-76
LIT	NJRC	
	♦THC	
7040	RTN	32-25
7049	VAR	16-93
JAN7049#1	none	17-33
JAN7049#2	none	17-2
7088	VET	32-62
7090	APX	29-83
7093	APX	36-108
7101	ΔSGN	38-50
7111	LIT	33-69
JAN7111	LIT	33-77
7147	ΔSGN	38-51
7148	ΔSGN	38-60
7152	♦NJRC	53-8
JAN7152	none	53-9
7152/BL612	♦VET	53-10
7152/MLT16B	OWE	53-7
7156	ΔRTN	32-54
JAN7156A	LIT	32-44
7158	RTN	17-61
7166	♦NJRC	54-5
JAN7166	none	54-6
7166/BL933	♦VET	54-2
7166/MLT10	OWE	53-105
7182	EEVB	30-71
7208	LIT	38-30
	TOSJ	
JAN7208	none	36-94
7208B	LIT	38-15
NJRC	RTN	
JAN7208B	LIT	36-86
7256	RTN	33-50
JAN7256	none	33-87
7300/MPT26	OWE	53-91
7309/BL693	♦VET	53-78
7324/MPT11	OWE	53-92
7381	♦THC	55-101
JAN7381	MIC	57-37
OWE	VET	
7381/BL979	♦VET	57-38
7393	VAR	44-36
7394	VAR	49-34
7417	VET	32-38
JAN7417	OWE	32-39
7443	VET	32-64
7446	VET	34-86
7447/BL325A	♦VET	57-7
7447/MCT30	OWE	57-8
7449A	LIT	36-98
7452A	VET	29-56
JAN7452A	none	36-54
7460	RTN	32-52
JAN7460	LIT	32-48
JAN7471	VAR	17-35
7484A	NECJ	29-13
	RTN	
7503	VET	35-45
7504	LIT	25-3
JAN7504	none	15-30
7505	VAR	16-57
JAN7511	SPY	20-39
7521	MIC	33-102
JAN7521	none	33-92
7529	ΔRTN	30-48
	TOSJ	
JAN7529M	none	30-49
7547	RTN	28-31
JAN7547	none	28-33
7577	RTN	14-10
7579	MIC	33-26
7619	LIT	37-1

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
7640	HAC	42- 2
	VAR	
JAN7640	HAC	42- 3
JAN7661	none	12-103
7662	VAR	26- 30
7663	VAR	26- 34
7692	LIT	34- 81
7821	♦VET	56- 94
7821/MPT12	OWE	53- 63
7823/MLT13	OWE	54- 9
JAN7824	none	12-104
7829A	ΔVAR	21- 5
JAN7829A	VAR	21- 6
JAN7849	none	55- 27
7849/BTR140	♦VET	55- 45
7849/MCT23	OWE	55- 46
7901/MPT13	OWE	53- 84
JAN7902	none	53- 94
7902/BLT004A	♦VET	53- 77
7902/MPT17	OWE	53- 95
7950	LIT	33- 75
7988	SGN	12- 3
7989	SGN	38- 69
7990	ΔSGN	38- 91
7991	ΔSGN	38- 88
7992	ΔSGN	38- 52
7993	ΔSGN	38- 53
7999	ΔSGN	38- 70
8030	ΔSGN	38- 89
8031	ΔSGN	38- 92
8052	VAR	18- 79
8059	ΔSGN	38- 83
8060/BLT041	♦VET	53- 79
8061/BLT059	♦VET	53- 80
JAN8076A	WJC	12-107
8099/MST38	OWE	54- 28
8111	VAR	42- 69
8128	ΔRTN	42- 17
JAN8128	none	42- 28
JAN8129D	none	14- 41
JAN8129F	none	14- 44
8151	ΔSGN	38- 61
8152	ΔSGN	38- 84
8154	VAR	47- 85
JAN8175	none	42- 4
JAN8196	none	15- 83
8198	VAR	46-109
8199	ΔVAR	17- 6
JAN8199	none	17- 4
JAN8225	none	41- 14
8232	VAR	42- 36
JAN8237	none	15- 74
JAN8258	none	40- 80
8272/MLT41	OWE	54- 19
JAN8279	none	40- 76
JAN8280	none	40- 70
8286	ΔSGN	38- 62
8287	ΔSGN	38- 71
8288	ΔSGN	38- 72
8292	ΔSGN	38- 54
8293	ΔSGN	38- 85
JAN8312	none	53- 82
8312/BL960B	♦VET	53- 70
JAN8313	none	53- 81
8313/BL995B	♦VET	53- 69
8313/MPT16	OWE	53- 88
JAN8315	SPY	15- 98
JAN8316	SPY	17- 39
8332	VAR	16- 4
8356	EEVB	35- 4
JAN8361	none	15-101
JAN8362	SPY	44- 3
JAN8364	SPY	44- 1
8366	LIT	36-102
JAN8405	SPY	15- 99
	VAR	
JAN8406	SPY	15- 97
8467	VAR	21- 81
JAN8467	VAR	21- 82
8468	LIT	36- 73
JAN8470	none	53- 85
8470/BL994	♦VET	53- 72
8472/BLT055	♦VET	53- 96
8481/BLT032	♦VET	52- 77
JAN8493	ITT	15- 25
	SPY	
8493/F2913	ITT	24-103
8512	ΔMIT	29- 69
JAN8551	none	43- 56
8568	VAR	27- 60
8574/MXT132	OWE	55- 52
8578/MST60	OWE	56-100
8599/BTR138	♦VET	56- 71
8599/MKT39	OWE	56- 80
8609	RTN	48- 16
8622/MST52	OWE	53- 18
JAN8634	none	26- 54
8682	♦VET	38- 44
JAN8682	VET	38- 46
8684	Δ♦RCA	28- 78
8713H	♦HAC	47- 77
JAN8742	VAR	42- 26
JAN8759	none	21- 99
8760H#1	HAC	47- 32
8760H#2	HAC	47- 31
8763	♦VET	37- 29
JAN8763	none	32- 51
8764	ΔRTN	32- 2
JAN8766	none	26- 58
JAN8770	none	55- 16
8770/BTR546	♦VET	55- 17
8778	MEC	41- 36
	MIC	
8779	MEC	48- 1
	MIC	
8780	MEC	48- 57
	MIC	
8798	ΔRTN	30- 53
	APX	
JAN8798	APX	30- 60
8821	ΔVAR	18- 55
JAN8821	VAR	18- 48
JAN8827	VET	36- 90
8829	ΔMIC	48- 3
	MEC	
8835	ΔMIC	52- 21
8836	ΔMIC	52- 22
8848	Δ♦VAR	19-102
JAN8848	none	19-103
8849	Δ♦VAR	18- 81
JAN8849	none	18- 84
8855	NECJ	37- 46
	RTN	
JAN8855	LIT	37- 47
	VET	
JAN8878	none	39- 28
JAN8879	none	40- 17
JAN8880	LIT	42- 32
JAN8881	LIT	44- 24
JAN8882	LIT	48- 74
8895	ΔVARC	20- 63
8896	ΔVET	37- 71
	RTN	
JAN8896	none	33- 83
8898	ΔRTN	14- 32
JAN8898	none	14- 42
8899	ΔRTN	14- 35
JAN8899	none	14- 43
8900	ΔRTN	14- 21
JAN8900	none	14- 37
JAN8901	none	22- 31
JAN8919	none	57-104
JAN8922	none	57- 83
8934	RTN	14- 38
JAN8934	none	14- 39
JAN8939	VET	37- 65
JAN8943	none	38- 23
8945	ΔLIT	37- 48
JAN8945	none	37- 61
8947	ΔRTN	37- 44
JAN8947	none	37- 43
8948	ΔRTN	38- 24
8949	ΔRTN	38- 29
8955	ΔLIT	38- 11
8956	ΔVAR	15-102
JAN8956	none	15-103
55335	APX	22- 52
	♦RTCF	
JAN10658175	none	31- 92
JAN10658176	none	33- 80
JAN10658181	none	33- 81
JAN10658182	none	36- 87
AP413	♦THC	53- 23
AP414	♦THC	53- 21
AP433	♦THC	53- 11
AP623	♦THC	53- 13
AR434C	♦THC	54- 12
AR434E	♦THC	54- 13
BA47F	OKIJ	13- 81
BA50G	OKIJ	13- 82
BA55B	OKIJ	13- 85
BA60C	OKIJ	13- 87
BA65A	OKIJ	13- 89
BA70C	OKIJ	13- 91
BA70X	♦OKIJ	13- 90
BA75C	OKIJ	13- 98
BA85A	OKIJ	13-101
BA85X	♦OKIJ	13-100
BA95A	OKIJ	13-104
BA100C	OKIJ	13-105
BES042	♦VET	57- 59
BES043	♦VET	56- 62
BES044	♦VET	56- 92
BES046	♦VET	54- 92
BES048	♦VET	57- 12
BES050	♦VET	54- 73
BES051	♦VET	56- 52
BES063	♦VET	56- 91
BL221	VET	37- 14
BL234C	VET	37- 15
BL235	VET	37- 10
BL236	VET	37- 11
BL237	VET	37- 12
BL244	♦VET	32- 40
BL245	VET	32- 74
BL246	VET	37- 13
BL246A	VET	37- 16
BL250	VET	32- 63
BL325	♦VET	56- 14
BL336	♦VET	57- 9
BL350	♦VET	55- 40
BL362	♦VET	57- 10
BL364	♦VET	56- 57
BL366	♦VET	55- 41
BL367A	♦VET	56- 29
BL397A	♦VET	56- 34
BL398	♦VET	55- 28
BL591	♦VET	52-108
BL638	♦VET	56-103
BL640	♦VET	52- 7
BL644	♦VET	56-109
BL696	♦VET	54- 76
BL800A	VET	20- 9
BL803	VET	19- 98
BL807	VET	20- 45
BL814	VET	21- 23
BL825	VET	20- 4
BL829	VET	19- 27
BL843	VET	19- 25
BL844	VET	21- 79
BL847	VET	19-101
BL849	VET	21- 7
BL934A	♦VET	57- 65
BL954	♦VET	53- 34
BL962	♦VET	53- 53
BL965	♦VET	55- 95
BL967A	♦VET	56- 72
BL970	♦VET	55-107
BL973	♦VET	55- 14
BL982	♦VET	53- 49
BLA007-1	♦VET	53- 43
BLA009	♦VET	52- 73
BLA011	♦VET	52- 20
BLA012	♦VET	52- 33
BLA013	♦VET	53- 42
BLA019	♦VET	52- 15
BLK001	VET	20- 41
BLK002	VET	20- 15
BLK003	VET	17- 7
BLK004	VET	20- 92
BLK005	VET	20- 57
BLK006	VET	20-108
BLK007	VET	20- 73
BLK008	VET	20- 72
BLK010	VET	21- 4
BLK011	VET	20- 40
BLK012	VET	20- 90
BLK020	♦VET	20-110
BLK022	♦VET	20- 26
BLK024	VET	19- 55
BLK829	♦VET	19- 28
BLM003	VET	34- 13
BLM006	VET	36-100
BLM014	VET	33- 21
BLM017	VET	32- 67
BLM071	VET	36- 55
BLM076A	VET	37- 5
BLM086	VET	32- 66
BLM093	VET	32- 69
BLM095	VET	32- 75
BLM116	VET	32- 77
BLM127	VET	32- 79
BLM129	♦VET	34- 14
BLM136	VET	33-103
BLM138	VET	33- 94
BLM143A	VET	36- 61
BLM148	VET	29- 58
BLM149A	♦VET	32- 71
BLM153	VET	32- 82
BLM154	VET	29- 59
BLM155	VET	32- 72
BLM162	VET	36- 74
BLM167	VET	32- 31
BLM176	VET	34- 60
BLM179	VET	32- 78
BLM181	VET	38- 18
BLM183	VET	38- 37
BLM184	VET	34- 48
BLM186	VET	32- 81
BLM188	♦VET	34- 84
BLM190	♦VET	32- 73
BLM192	♦VET	38- 28
BLM195	♦VET	34- 85
BLM196	VET	32- 70
BLM198	♦VET	36- 59
BLM199	VET	36- 91
BLM201	♦VET	32- 76
BLM203	VET	33-108
BLM204	VET	33- 95
BLM205	VET	32- 65
BLM207	VET	34- 47
BLM211	♦VET	33- 97
BLM213	♦VET	32- 68
BLM256	♦VET	33- 98
BLM304	♦VET	36- 34
BLM306	♦VET	38- 6
BLM309	♦VET	38- 34
BLM310	♦VET	36- 62
BLM311	♦VET	37- 94
BLM312	♦VET	37- 87
BLM313	♦VET	37- 86
BLM1390	VET	33- 19
BLM1395	VET	34- 11
BLP005D	♦VET	52-109
BLP017D	♦VET	52-106
BLP027D	♦VET	52-110
BLP136D	♦VET	52-107
BLP149D	♦VET	52- 96
BLP215	♦VET	53- 1
BLS032	♦VET	55- 4
BLS517	♦VET	56- 93
BLS526	♦VET	55- 26
BLS530	♦VET	56- 66
BLS531	♦VET	57- 62
BLT005B	♦VET	53- 68
BLT028	♦VET	55-100
BLT033	♦VET	56-101
BLT036	♦VET	57- 73
BLT056	♦VET	53- 97
BLT058	♦VET	56- 87
BLT072	♦VET	55- 55
BLT074	♦VET	53-103
BLT077	♦VET	53- 98
BLT088	♦VET	56- 21
BLT101	♦VET	56- 26
BLT111	♦VET	56- 73
BLT114A	♦VET	55- 99
BLT119	♦VET	54- 60
BM25LB	EEVB	28- 69
BM25LC	EEVB	28- 79
BM25LD	EEVB	28- 68
BM1002	EEVB	35- 86
BM1003	EEVB	31- 31
BM1004	EEVB	31- 6
BM1005	EEVB	30-103
BM1006	EEVB	31- 22
BM1026	EEVB	35-104
BM1027	EEVB	36- 1
BM1028	EEVB	36- 4
BM1029	EEVB	36- 9
BM1030	EEVB	36- 15
BM1031	EEVB	35- 90
BM1032	EEVB	35- 93
BM1033	EEVB	36- 21
BM1034	EEVB	36- 13
BM1035	EEVB	35-108
BM1036	EEVB	34- 25
BM1037	EEVB	33-110
BM1038	EEVB	34- 26
BM1039	EEVB	33- 24
BM1040	EEVB	33- 89
BS48	♦EEVB	52- 83
BS52	♦EEVB	56- 50
BS52A	♦EEVB	56- 51
BS58	♦EEVB	54- 43
BS60	EEVB	58- 68
BS70	EEVB	58- 69
BS78	EEVB	56- 84
BS80	EEVB	56- 86
BS82	♦EEVB	52- 58
BS84	♦EEVB	52- 61
BS92	♦EEVB	52- 75
BS104	♦EEVB	54- 37
BS108	♦EEVB	58- 32
BS110	♦EEVB	54- 68
BS114	♦EEVB	52- 84
BS116	♦EEVB	52- 74
BS118	♦EEVB	52- 52
BS122	♦EEVB	58- 25
BS128	♦EEVB	54- 23
BS130	♦EEVB	58- 41
BS132	♦EEVB	58- 51
BS138	♦EEVB	53- 39
BS148	♦EEVB	52- 85
BS156	♦EEVB	56- 18
BS158	♦EEVB	55- 58
BS162	♦EEVB	58- 3
BS168	♦EEVB	57- 89
BS170	♦EEVB	54- 57
BS172	♦EEVB	54- 53
BS180	♦EEVB	53- 51
BS190	♦EEVB	57- 98
BS192	♦EEVB	56- 45
BS194	♦EEVB	57- 91
BS196	♦EEVB	56- 46
BS200	♦EEVB	57- 52
BS202	♦EEVB	55- 61
BS204	♦EEVB	54- 63
BS206	♦EEVB	56- 40
BS216	♦EEVB	56- 3
BS220	EEVB	53- 35
BS224	EEVB	53- 52
BS228	♦EEVB	56- 6
BS248	♦EEVB	52- 55
BS254	♦EEVB	58- 22
BS256	♦EEVB	58- 36
BS258	♦EEVB	58- 26
BS264	♦EEVB	58- 27
BS286	♦EEVB	54- 75
BS310	♦EEVB	52- 76
BS314	♦EEVB	55-102
BS316	♦EEVB	57- 40
BS324	♦EEVB	54- 35
BS342	♦EEVB	38- 86
BS344	♦EEVB	38- 48
BS384	♦EEVB	38- 73
BS386	♦EEVB	38- 93
BS390	♦EEVB	54- 61
BS412	♦EEVB	52- 62
BS426	♦EEVB	54-102
BS430	♦EEVB	54- 93
BS440	♦EEVB	55- 59
BS450	♦EEVB	56- 44
BS452	♦EEVB	56- 48
BS456	♦EEVB	54- 55
BS462	♦EEVB	56- 5
BS466	♦EEVB	56- 41
BS500	♦EEVB	58- 16
BS608A	♦EEVB	52- 98
BS608B	♦EEVB	52- 99
BS616A	♦EEVB	52-104
BS616B	♦EEVB	52-105
BS624A	♦EEVB	52- 86
BS624B	♦EEVB	52- 87
BS624C	♦EEVB	52- 88
BS624D	♦EEVB	52- 89
BS624E	♦EEVB	52- 90
BS624K	♦EEVB	52- 91
BS624L	♦EEVB	52- 92
BS624M	♦EEVB	52- 93
BS624N	♦EEVB	52- 94
BS624P	♦EEVB	52- 95
BS630	♦EEVB	52-103
BS640	♦EEVB	38- 78
BS644	♦EEVB	38- 56
BS646	♦EEVB	38- 67
BS648	♦EEVB	38- 65
BS658	♦EEVB	38- 75
BS660	♦EEVB	38- 74
BS662	♦EEVB	38- 77
BS674	♦EEVB	38- 87
BS676	♦EEVB	38- 64
BS678	♦EEVB	38- 79
BS698	♦EEVB	38- 58
BS702	♦EEVB	53- 20
BS708	♦EEVB	53- 58
BS710	♦EEVB	53- 19
BS714	♦EEVB	54- 81
BS716	♦EEVB	53- 28
BS718	♦EEVB	54- 45
BS720	♦EEVB	54- 44
BS724	♦EEVB	54- 94
BS726	♦EEVB	54- 95
BS728	♦EEVB	54- 96
BS730	♦EEVB	54- 80
BS732	♦EEVB	54- 82
BS750	♦EEVB	38- 76
BS752	♦EEVB	38- 80
BS758	♦EEVB	38- 66
BS762	♦EEVB	38- 57
BS800	♦EEVB	54- 56
BS806A	♦EEVB	58- 34
BS806B	♦EEVB	58- 23
BS806C	♦EEVB	58- 43
BS806D	♦EEVB	58- 44
BS806E	♦EEVB	58- 24
BS806F	♦EEVB	57-107
BS806G	♦EEVB	58- 35
BS806H	♦EEVB	52- 1
BS810	♦EEVB	56- 47
BS812	♦EEVB	58- 47
BS814	♦EEVB	58- 30
BS816	♦EEVB	57-109
BS818	♦EEVB	58- 56
BS820	♦EEVB	58- 2
BS822	♦EEVB	56- 54
BS824	♦EEVB	54- 49
BS826	♦EEVB	58- 54
BS828	♦EEVB	58- 4
BS830	♦EEVB	58- 42
BS832	♦EEVB	54- 50
BS834	♦EEVB	53- 40
BS836	♦EEVB	53- 37
BS838	♦EEVB	53- 38
BS840	♦EEVB	54- 62
BS842	♦EEVB	56- 2
BS844	♦EEVB	58- 46
BS846	♦EEVB	54- 51
BS848	♦EEVB	54- 54
BS852	♦EEVB	54- 83
BS856	♦EEVB	55- 7
BS858	♦EEVB	53- 48
BS860	♦EEVB	55- 65
BS870	♦EEVB	54- 25
BS872	♦EEVB	54- 24
BS876	♦EEVB	54- 8
BS880	♦EEVB	53- 41
BS882	♦EEVB	58- 28
BS886	♦EEVB	58- 5
BS892	♦EEVB	56- 38
BS894	♦EEVB	54- 74
BS896	♦EEVB	58- 52
BS904	♦EEVB	54- 48
BS908	♦EEVB	58- 38
BS910	♦EEVB	53- 44
BS912	♦EEVB	53- 45
BS914	♦EEVB	55- 74
BS916	♦EEVB	53- 46
BS918	♦EEVB	57- 41
BS924	♦EEVB	54- 84
BS928	♦EEVB	56- 13
BS930	♦EEVB	53- 55
BS932	♦EEVB	54-101
BS940	♦EEVB	53- 32
BS946	♦EEVB	54- 97
BS950	♦EEVB	58- 1
BS952	♦EEVB	58- 31
BS956	♦EEVB	56- 12
BS958	♦EEVB	58- 37
BS960	♦EEVB	57-110
BS966	♦EEVB	55- 8
BS968	♦EEVB	58- 20
BS970	EEVB	53- 54
BS974	♦EEVB	58- 21
BS986	♦EEVB	53- 33
BS990	♦EEVB	53- 47
BT237D	BTC	21- 44
BT860	BTC	19- 47
BT1315	BTC	19- 48
BT1316	BTC	17- 41
BT6236A	BTC	17- 43
BT6390A	BTC	19- 51
BT6390B	BTC	19- 56
BTR123	♦VET	57- 2
BTR129	♦VET	55-108
BTR136	♦VET	54- 29
BTR141	♦VET	57- 60
BTR145	♦VET	57- 66
BTR147	♦VET	57- 72
BTR153	♦VET	57- 18
BTR156	♦VET	57- 67
BTR162	♦VET	57- 13
BTR167	♦VET	57- 64
BTR171	♦VET	55-103
BTR174	♦VET	55-104
BTR198A	♦VET	57- 46
BTR202	♦VET	57- 71
BTR209	♦VET	57- 36
BTR537	♦VET	56- 63
BTR540	♦VET	56- 81
BTR541	♦VET	54- 70
BTR545A	♦VET	56- 25
BTR547	♦VET	55- 1
BTR554	♦VET	56- 64
BTR570A	♦VET	55- 85
BTR574	♦VET	56- 74
BTR576	♦VET	56- 85
BTR583	♦VET	54- 30
BTR608	♦VET	56- 68

Δ-Registered with JEDEC
by this manufacturer

♦-Copy of mfr's data sheet
may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
BTR614	♦VET	55-25	DX286	APX	29-3	F1127	♦THC	29-22	JP9-2.5D	APX	35-78	KS9-40D	APX	20-32
BTR629A	♦VET	56-53	DX290	APX	36-80	F1128	♦THC	29-39		♦EMIB		KY366AT	♦EEVB	18-90
BTR630	♦VET	56-69	DX342	APX	28-65	F2006	♦THC	15-93	JP9-2.5E	APX	35-79	KY366BT	♦EEVB	18-53
BTR632A	♦VET	54-20	DX343	APX	28-58	F2008	♦THC	15-14		♦EMIB		KY366CDT	♦EEVB	18-14
BTR633	♦VET	54-10	DX368	APX	33-11	F2009#	♦THC	15-21	JP9-2.5F	APX	35-80	KY366CT	♦EEVB	18-37
BTR639	♦VET	56-22	DX373	APX	35-49	F2015	♦THC	15-66	JP9-2.5H	APX	34-89	KY366DT	♦EEVB	18-9
BTR640	♦VET	56-89	DX401	♦APX	29-109	F2040	♦THC	15-72	JP9-7A	APX	34-4	KY366ET	♦EEVB	17-71
BTR641	♦VET	54-52	DX423	APX	37-20	F2042	♦THC	15-73	JP9-7D	APX	34-96	KY366GT	♦EEVB	17-83
BTR647	♦VET	54-7	DX450	APX	28-86	F2043	♦THC	15-71	JP9-7L	APX	34-102	KY366JT	♦EEVB	18-99
BTR666	♦VET	55-105	DX452	APX	29-96	F2049	♦THC	15-52	JP9-15	APX	34-109	KY367AT	♦EEVB	18-91
BW050	♦OKIJ	13-83	DX453	APX	29-102	F2055⧄	♦THC	15-11	JP9-15D	APX	34-110	KY367BT	♦EEVB	18-54
BW080	♦OKIJ	13-96	DX481	APX	30-64	F2084	ITT	47-51	JP9-18	APX	35-67	KY367CT	♦EEVB	18-38
BWS1	MOVB	12-41	DX482	APX	31-19	F2085	ITT	48-40	JP9-75	APX	35-29	KY367DT	♦EEVB	18-10
BWS2	MOVB	12-50	E3080	MOVB	39-13	F2086	ITT	47-105	JP9-250	APX	35-36	KY367ET	♦EEVB	17-72
BWX5	MOVB	12-66	E3389	MOVB	36-41	F2087	ITT	49-109	K211	EEVB	25-7	KY367GT	♦EEVB	17-84
CMA1231	♦THC	12-18	E3753	TOSJ	16-46	F2088	ITT	48-62	K300	EEVB	20-27	KY367JT	♦EEVB	18-100
CMA1232	♦THC	12-20	E3762	TOSJ	27-57	F2094	ITT	49-57	K302	EEVB	20-28	L2302	LIT	41-39
CMA1233	♦THC	12-24	E3803	TOSJ	51-95	F2097	ITT	48-71	K311	EEVB	19-49	L2303	LIT	44-43
CMA1234	♦THC	12-30	E3902	TOSJ	56-42	F2098	ITT	45-8	K324	EEVB	20-43	L2327	LIT	41-15
CMA1241	♦THC	12-22	EM15LS	VAR	28-74	F2099	ITT	45-19	K335	EEVB	20-53	L2328	LIT	44-44
CMA1242	♦THC	12-28	EM113	VAR	42-5	F2101	ITT	48-88	K337	EEVB	20-44	L2329	LIT	49-72
CMA1243	♦THC	12-32	EM114A	VAR	40-95	F2104	ITT	46-95	K342	EEVB	19-26	L2330	LIT	41-40
CMA1244	♦THC	12-34	EM117	VAR	42-6	F2106	ITT	43-106	K347A	EEVB	24-95	L2331	LIT	39-98
CMA1245	♦THC	12-37	EM118C	VAR	40-94	F2107	♦ITT	40-96	K351	EEVB	19-72	L2332	LIT	41-67
CMA1246	♦THC	12-44	EM120	VAR	42-70	F2112	♦ITT	44-7	K357	EEVB	20-105	L2333	LIT	41-16
CMA1247	♦THC	12-53	EM747	VET	28-61	F2118	♦ITT	44-8	K359	EEVB	19-17	L2335	LIT	44-69
CMA1251	♦THC	12-39	EM778	VAR	46-110	F2120	ITT	42-21	K361	EEVB	20-107	L2337	LIT	47-90
CMA1252	♦THC	12-42	EM778J	VAR	47-1	F2124	ITT	42-27	K361B	EEVB	20-104	L2338	LIT	49-8
CMA1253	♦THC	12-51	EM1006	VAR	41-37	F2125	ITT	42-7	K365	EEVB	25-25	L2339	LIT	39-99
CMA1254	♦THC	12-55	EM1010	VAR	44-68	F2128	ITT	42-23	K370	EEVB	25-39	L2341	LIT	39-31
CMA1255	♦THC	12-58	EM1015	VAR	44-85	F2533	ITT	48-41	K371	EEVB	25-67	L2342	LIT	39-85
CMA1256	♦THC	12-62	EM1015S	VAR	47-46	F2544	ITT	12-108	K372	EEVB	25-88	L2343	LIT	41-41
CMA1257	♦THC	12-64	EM1026	VAR	41-38	F2547	ITT	13-12	K376	EEVB	25-44	L2344	LIT	44-70
CMA1258	♦THC	12-70	EM1030	VAR	48-5	F2548	ITT	47-54	K377	EEVB	25-71	L2345	LIT	49-9
CMA1259	♦THC	12-75	EM1039A	VAR	47-2	F2552	ITT	48-18	K383	EEVB	25-36	L2346	LIT	39-93
CMA1260	♦THC	12-77	EM1045	VAR	49-50	F2553	ITT	12-99	K384	EEVB	25-65	L2347	LIT	41-49
CMA1261	♦THC	12-79	EM1047	VAR	47-3	F2554	ITT	13-27	K385	EEVB	25-85	L2348	LIT	44-77
CMA1290	♦THC	13-61	EM1050	VAR	49-53	F2555	ITT	12-109	K386	EEVB	26-5	L2349	LIT	48-99
CMP1115	♦THC	14-81	EM1056	VAR	49-110	F2556	ITT	12-87	K390	EEVB	26-44	L2352	LIT	42-97
CO09	♦THC	14-2	EM1059	VAR	44-76	F2557	ITT	13-49	K391	EEVB	19-99	L2357	LIT	44-62
CO10	♦THC	13-110	EM1060	VAR	46-8	F2576	ITT	44-6	K391A	EEVB	19-38	L2360	LIT	42-84
CO20A	♦THC	13-108	EM1081	VET	28-85	F2577	ITT	42-8	K3004	EEVB	25-37	L2361	LIT	48-95
CO20B	♦THC	13-106	EM1083B	VET	28-28	F2578	♦ITT	42-9	K3005	EEVB	25-66	L2362	LIT	42-91
CO40A	♦THC	13-94	EM1088B	VET	28-49	F2909	ITT	24-109	K3006	EEVB	25-86	L2363	LIT	49-46
CO40B	♦THC	13-92	EM1089	VET	28-20	F2910	ITT	24-100	K3007	EEVB	20-18	L2364	LIT	50-57
CO80	♦THC	13-78	EM1091	VET	29-75	F2911	ITT	24-104	K3014	EEVB	25-45	L2365	LIT	50-54
CV238	EMIB	16-80	EM1091A	VET	29-70	F2912	ITT	24-106	K3015	EEVB	25-72	L2366	LIT	48-97
CV1475	MOVB	31-94	EM1092	VET	28-87	F3003	♦THC	53-24	K3016	EEVB	25-91	L2367	LIT	50-90
CV1476	MOVB	31-93	EM1093	VET	30-32	F3004	♦THC	53-22	K3017	EEVB	25-47	L2369	LIT	42-92
CV1477	MOVB	31-89	EM1095	VAR	17-75	F3010	♦THC	53-27	K3018	EEVB	25-73	L2370	LIT	42-98
CV1478	MOVB	31-88	EM1097	VET	28-73	F3012	♦THC	55-106	K3019	EEVB	25-92	L2371	LIT	46-66
CV1479	MOVB	31-32	EM1102B	VAR	44-4	F3022	♦THC	53-26	K3033	♦EEVB	16-76	L2372	LIT	46-67
CV1480	MOVB	31-28	EM1114,B	VAR	21-86	F3023	♦THC	53-14	K3035	EEVB	22-61	L2374	LIT	50-93
CV1481	MOVB	31-1		♦VARC		F3024	♦THC	54-14	K3038	EEVB	22-54	L2375	LIT	50-51
CV1482	MOVB	30-108	EM1114A,C	VAR	21-62	F3025	♦THC	54-15	K3039	EEVB	22-53	L2376	LIT	51-4
CV1483	MOVB	31-109		♦VARC		F3026	♦THC	53-25	K3066	EEVB	20-106	L2377	LIT	44-21
CV1484	MOVB	31-107	EM1138	VAR	22-25	F3027	♦THC	53-12	K3067	♦EEVB	16-81	L2378	LIT	47-106
CV1485	MOVB	31-105	EM1138M	VAR	22-60	F3031	♦THC	54-21	K3069	♦EEVB	20-98	L2379	LIT	41-42
CV1486	MOVB	31-97	EM1148A	VAR	22-23	F3042	♦THC	57-47	K3071	♦EEVB	24-41	L2380	LIT	42-99
CV1495	MOVB	31-27	EM1149	VAR	21-92	F3043	♦THC	56-16	K3073	♦EEVB	20-84	L2381	LIT	44-71
CV1496	MOVB	31-30	EM1150	VET	28-83	F4017D	♦THC	40-60	K3074	♦EEVB	20-94	L2382	LIT	46-75
CV1497	MOVB	31-39	EM1151	VET	28-43	F4019	♦THC	12-56	K3076	♦EEVB	20-100	L2383	LIT	49-10
CV1498	MOVB	31-72	EM1153C	VET	28-70	F4020	♦THC	12-63	K3077	♦EEVB	20-34	L2384	LIT	50-58
CV1499	MOVB	31-74	EM1165	VET	29-68	F4021	♦THC	12-65	K3079	♦EEVB	19-18	L2385	LIT	46-60
CV1500	MOVB	31-77	EM1184E	VAR	47-23	F4022	♦THC	12-76	K3080	EEVB	22-11	L2387	LIT	42-101
CV2116	EMIB	16-69	EM1188	VAR	22-27	F4024B	♦THC	42-44	K3081	♦EEVB	20-36	L3028D	LIT	34-50
CV2346	EMIB	19-19	EM1300	VET	28-23	F4025B	♦THC	43-92	K3082	♦EEVB	25-48	L3029A	LIT	34-24
CV2362	EEVB	30-40	EM1310	VET	28-51	F4026B	♦THC	47-89	K3083	♦EEVB	25-74	L3029B	LIT	34-30
CV2363	EEVB	30-46	EM1311	VET	28-84	F4027	♦THC	12-29	K3084	♦EEVB	25-93	L3029C	LIT	34-58
CV2364	EEVB	30-51	EM1313	VET	28-64	F4032B	♦THC	13-43	K3090	♦EEVB	24-42	L3029D	LIT	34-31
CV2365	EEVB	30-68	EM1320	VET	29-44	F4035	♦THC	12-40	K3091	♦EEVB	20-35	L3030	LIT	33-85
CV2366	EEVB	30-76	EM1321	VET	29-72	F4036	♦THC	12-19	K3094	♦EEVB	20-19	L3030B	LIT	33-44
CV2367	EEVB	30-78	EM1323	VET	29-60	F4038	♦THC	12-45	K3095	♦EEVB	19-40	L3030C	LIT	34-2
CV2368	EEVB	30-83	EM1331	VET	29-76	F4039	♦THC	12-21	K3096	♦EEVB	20-13	L3030D	LIT	35-38
CV5134	MOVB	33-43	EM1332	VET	30-29	F4040	♦THC	12-25	K3097	♦EEVB	19-50	L3035	LIT	15-31
CV6001	EMIB	22-62	EM1333	VET	31-35	F4041	♦THC	12-31	K3098-6975	EEVB	19-37	L3036A	LIT	35-76
CV6002	EMIB	19-16	EM1334	VET	31-8	F4043	♦THC	12-43	K3099	EEVB	24-108	L3036B	LIT	34-27
CV6071	EMIB	16-83	EM1336	VET	31-85	F4044	♦THC	12-52	K3111	EEVB	19-66	L3036E	LIT	35-24
CV6087	MULB	48-77	F1005	♦THC	33-70	F4045	♦THC	12-59	K3113	♦EEVB	20-38	L3036F	LIT	34-7
CV6183	MULB	48-91	F1025	♦THC	33-60	F4051	♦THC	12-78	K3114A	♦EEVB	17-65	L3036G	LIT	34-8
CV6223	MULB	41-106	F1030	♦THC	31-42	F4052	♦THC	12-80	K3114B	♦EEVB	18-21	L3039	LIT	34-20
JANDOD001	none	18-69	F1031	♦THC	31-43	F4056B	♦THC	46-11	K3114C	♦EEVB	18-77	L3039A	LIT	33-22
JANDOD002	none	16-110	F1032	♦THC	31-44	F4064A	♦THC	40-26	K3114E	♦EEVB	19-5	L3039D	LIT	33-31
JANDOD004	VET	57-61	F1033	♦THC	31-45	F4066	♦THC	43-37	K3114F	♦EEVB	19-13	L3039E	LIT	33-36
JANDOD005	VET	56-65	F1034	♦THC	31-46	F4069	♦THC	42-77	K3118	♦EEVB	19-86	L3039F	LIT	33-39
JANDOD007	none	15-8	F1035	♦THC	31-47	F4074	♦THC	14-1	K3217	EEVB	25-51	L3039G	LIT	33-41
JANDOD008	none	58-19	F1036	♦THC	31-48	F4075	♦THC	13-107	K3218	EEVB	25-76	L3039H	LIT	33-47
JANDOD009	none	43-62	F1037	♦THC	31-49	F4076	♦THC	13-93	K3219	EEVB	25-96	L3039I	LIT	33-90
JANDOD010	none	57-75	F1038	♦THC	31-50	F4084	♦THC	13-4	K3282	EEVB	25-49	L3039J	LIT	33-109
JANDOD011	none	38-4	F1039	♦THC	31-51	F4085	♦THC	12-71	K3283	EEVB	25-75	L3039K	LIT	34-3
JANDOD012	none	33-64	F1040	♦THC	31-52	F4114	♦THC	14-3	K3284	EEVB	25-94	L3039L	LIT	34-28
JANDOD013	none	33-65	F1041	♦THC	31-53	F4116	♦THC	12-33	K3382	♦EEVB	25-30	L3039M	LIT	34-63
JANDOD015	none	33-96	F1042	♦THC	31-54	F4117	♦THC	12-35	K3383	♦EEVB	25-62	L3039N	LIT	35-51
JANDOD016	none	18-59	F1043	♦THC	31-55	F4118	♦THC	12-38	K3384	♦EEVB	25-99	L3039P	LIT	35-34
JANDOD017	none	39-47	F1044	♦THC	31-56	F4119	♦THC	12-54	KA651	♦OKIJ	22-100	L3039R	LIT	33-25
JANDOD019	none	33-99	F1050	♦THC	32-49	F4123A	♦THC	39-84	KA701A	♦OKIJ	23-3	L3058	LIT	34-61
JANDOD020	none	58-62	F1054	♦THC	30-104	F4129	♦THC	41-4	KA1330	♦OKIJ	23-81	L3083	LIT	36-77
JANDOD021	none	58-71	F1055	♦THC	31-40	F4143	♦THC	13-79	KA1390	♦OKIJ	23-88	L3089B	LIT	33-27
JANDOD022	none	58-72	F1056	♦THC	31-79	F4146	♦THC	13-109	KA1450	♦OKIJ	23-95	L3101A	LIT	36-78
JANDOD023	none	28-93	F1088	♦THC	28-103	F4150	♦THC	13-95	KA1510	♦OKIJ	23-104	L3103	LIT	33-53
JANDOD024	none	29-67	F1089	♦THC	29-5	F4156	♦THC	51-6	KAP1151	♦THC	15-15	L3105	LIT	34-36
JANDOD025	none	31-95	F1090	♦THC	29-21	F4171A	♦THC	13-53	KAP1152	♦THC	15-20	L3156	LIT	35-32
JANDOD028	none	36-48	F1091	♦THC	29-23	F4181	♦THC	45-99	KL415	LMTF	24-101	L3189	LIT	30-2
JANDOD029	none	37-109	F1092	♦THC	29-26	F4182	♦THC	12-23	KR740	♦THC	16-85	L3225	LIT	34-59
JANDOD030	none	13-60	F1093	♦THC	29-29	F4185	♦THC	49-83	KR741	♦THC	16-91	L3234	LIT	12-69
JANDOD031	none	37-38	F1094	♦THC	29-36	F4186	♦THC	47-5	KR742	♦THC	16-97	L3250	LIT	15-32
JANDOD032	none	37-107	F1095	♦THC	29-40	F4189	♦THC	40-20	KR743	♦THC	16-105	L3268	LIT	34-39
JANDOD033	none	38-2	F1096	♦THC	29-42	FAA237D	BTC	21-42	KRA1080	♦THC	16-56	L3327	LIT	34-80
JANDOD0141	none	52-100	F1103	♦THC	33-71	JF20	♦FERS	54-46	KRA1081	♦THC	16-67	L3358	LIT	36-63
DX206	♦APX	30-5	F1103A	♦THC	33-72	JF20D	♦FERS	54-47	KS9-20B	APX	20-31	L3359	LIT	36-68
DX260	♦APX	30-6	F1119	♦THC	29-4	JF71	♦FERS	55-5	KS9-20D	APX	20-29	L3403	LIT	15-9
DX267	♦APX	29-2	F1120	♦THC	29-25	JF72	♦FERS	55-29	KS9-20G	APX	20-54	L3431A	LIT	35-1
DX276	♦APX	30-58	F1121	♦THC	29-27	JP9-2.5	APX	35-55	KS9-40	APX	20-23	L3456	LIT	28-35
DX285	APX	33-84	F1123	♦THC	30-24				KS9-40B	APX	20-33	L3459	LIT	28-60

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
L3460	LIT	30-107	L5160	LIT	40-72	L5590	LIT	42-60	M569	EEVB	30-97	M5083A	♦EEVB	30-54
L3461	LIT	32-8	L5191	LIT	34-67	LB6-10	♦MULB	45-94	M570	EEVB	31-25	M5084	♦EEVB	28-105
L3462	LIT	33-4	L5200	LIT	38-16	LB6-10B	♦MULB	45-95	M573	EEVB	30-98	M5085	♦EEVB	29-32
L3463	LIT	36-7	L5201	LIT	29-97	LB6-25	♦MULB	45-97	M574	EEVB	31-26	M5086	♦EEVB	28-106
L3464	LIT	29-63	L5209	LIT	35-103	LB6-25A	♦MULB	46-32	M575	EEVB	35-30	M5087	♦EEVB	29-33
L3465	LIT	28-97	L5211	♦LIT	37-97	LD550T	NECJ	46-34	M577B	EEVB	31-29	M5089	♦EEVB	35-77
L3467	LIT	32-42	L5218	LIT	44-63	LD561	NECJ	21-38	M578B	EEVB	31-73	M5091A	♦EEVB	31-16
L3468	LIT	32-98	L5219	LIT	42-11	LD570	NECJ	40-91	M579	EEVB	31-76	M5094	EEVB	30-61
L3496A	LIT	36-64	L5220	LIT	48-45	LD571A	NECJ	48-67	M581	EEVB	35-89	M5097	♦EEVB	35-48
L3500	LIT	28-34	L5223	LIT	38-32	LD585	NECJ	25-17	M586	EEVB	28-107	M5100	♦EEVB	36-104
L3501	LIT	28-59	L5224	LIT	34-40	LD585A	♦NECJ	26-14	M592	EEVB	33-40	M5101	♦EEVB	33-61
L3502	LIT	28-96	L5225	LIT	40-36	LD585B	NECJ	26-15	M595B	EEVB	30-93	M5105	♦EEVB	35-92
L3503	LIT	29-62	L5227	LIT	51-40	LD588	NECJ	18-57	M596	EEVB	35-50	M5108	♦EEVB	35-63
L3504	LIT	30-106	L5235	LIT	15-37	LD597A	NECJ	43-4	M597	EEVB	35-62	M5109	♦EEVB	37-92
L3505	LIT	32-7	L5237	LIT	15-38	LD638	NECJ	40-92	M598B	EEVB	35-68	M5111	♦EEVB	34-76
L3506	LIT	32-41	L5241	LIT	48-24	LD656	NECJ	21-49	M599	EEVB	35-81	M5113	♦EEVB	31-20
L3507	LIT	32-97	L5250	LIT	48-89	LD659	NECJ	26-12	M1222	NJRC	30-44	M5115	♦EEVB	35-58
L3508	LIT	33-3	L5252	LIT	48-73	LD700	NECJ	45-69	M1223	NJRC	30-75	M5117	EEVB	35-110
L3509	LIT	36-6	L5253	LIT	49-24	LD745	NECJ	40-50	M1224	NJRC	30-84	M5118	EEVB	34-69
L3601	LIT	34-57	L5260A	LIT	29-98	LD747	NECJ	45-65	M1225	NJRC	30-94	M5119	♦EEVB	33-62
L3611	LIT	47-99	L5261A	LIT	29-90	LD793	NECJ	45-89	M1226	NJRC	30-100	M5123	EEVB	36-103
L3635	LIT	34-103	L5263	LIT	45-27	LD800	NECJ	46-20	M1227	♦NJRC	30-37	M5124	♦EEVB	37-19
L3645	LIT	36-58	L5271	LIT	38-9	LD812	NECJ	46-43	M2102G	MEC	40-28	M5125	♦EEVB	31-3
L3654A	LIT	35-11	L5273	LIT	33-66	LD812A	NECJ	46-94	M2103NA	MEC	41-7	M5126A	♦EEVB	31-83
L3660	LIT	15-33	L5274	LIT	34-65	LD812B	NECJ	46-6	M2105GA	MEC	47-79	M5133	EEVB	30-73
L3661	LIT	15-35	L5275	LIT	48-20	LD821	NECJ	40-48	M2105R	MEC	49-17	M5134	EEVB	30-99
L3668H	LIT	26-32	L5280	LIT	48-30	LD824	NECJ	40-49	M2105S	MEC	49-18	M5135	♦EEVB	31-23
L3694	LIT	15-10	L5281	LIT	41-103	LD837	NECJ	40-23	M2106G	MEC	47-91	M5136	♦EEVB	31-75
L3714	LIT	28-42	L5283	LIT	42-12	LD845	NECJ	50-104	M2112-O	MEC	44-27	M5137	♦EEVB	37-17
L3721	LIT	12-26	L5284	LIT	45-28	LD850	NECJ	50-34	M2112H	MEC	44-46	M5138	EEVB	37-90
L3724	LIT	12-46	L5293	LIT	48-9	LD853	NECJ	40-51	M2112I	MEC	44-37	M5161	MEC	40-89
L3724A	LIT	12-48	L5316	LIT	12-49	LD857	NECJ	18-52	M2114H	MEC	51-13	M5216	MEC	47-84
L3726	LIT	12-61	L5317	LIT	12-60	LD863	NECJ	46-19	M2114I	MEC	51-14	M5217	MEC	47-92
L3728	LIT	12-73	L5318	LIT	12-67	LD871	NECJ	46-71	M2201B	MEC	49-73	M5236	MEC	47-59
L3729A	LIT	12-57	L5320	LIT	43-33	LD873	NECJ	47-18	M2201BA	MEC	49-26	M5237	MEC	40-98
L3738	LIT	36-76	L5322	LIT	50-9	LD892	NECJ	45-60	M2201BB	MEC	49-27	M5311	MEC	40-1
L3742	LIT	15-79	L5326	LIT	48-84	LD910	NECJ	50-15	M2201K	MEC	48-96	M5311K	♦MEC	40-2
L3813	LIT	34-38	L5328	LIT	38-5	LD914	NECJ	50-18	M2203E	MEC	43-110	M5312	MEC	41-85
L3858	LIT	30-17	L5330	LIT	36-79	LD916	NECJ	43-31	M2204AE	MEC	49-3	M5312K	♦MEC	41-86
L3890A	LIT	35-12	L5334	LIT	14-82	LD919	NECJ	26-10	M2204AG	MEC	50-3	M5313	MEC	44-107
L3897	LIT	32-20	L5336	LIT	42-13	LD920	NECJ	45-71	M2204E	MEC	48-93	M5313K	♦MEC	44-108
L3910	LIT	15-47	L5337	LIT	50-11	LD927	NECJ	43-28	M2403E	MEC	47-108	M5314	MEC	39-45
L3915	LIT	36-71	L5339	LIT	50-8	LD928	NECJ	46-17	M2404-O	MEC	48-6	M5314K	♦MEC	48-26
L3928	LIT	48-7	L5341	LIT	16-14	LD929	NECJ	50-87	M2404I	MEC	49-52	M5318	MEC	51-37
L3943	LIT	15-29	L5346	LIT	14-107	LD931	NECJ	46-28	M2404K	MEC	48-100	M5333	♦MEC	50-31
L3944	LIT	15-34	L5347	LIT	14-88	LD945	NECJ	28-75	M2404KA	MEC	48-101	M5350	♦MEC	47-8
L3956	LIT	33-37	L5359	LIT	37-96	LD952	NECJ	26-11	M2404P	MEC	49-76	M5351	MEC	39-30
L3957	LIT	47-16	L5365	LIT	34-66	LD952A	NECJ	26-13	M2404Q	MEC	48-11	M5352	MEC	39-80
L3958	LIT	36-44	L5371	LIT	14-102	LD958	♦NECJ	45-56	M2405F	MEC	51-38	M5353	MEC	41-20
L3958A	LIT	38-3	L5372	LIT	14-103	LD4001	NECJ	45-55	M2411B	MEC	47-109	M5354	MEC	44-47
L3971	LIT	41-50	L5373	LIT	14-50	LD4007	♦NECJ	43-1	M4260	MEC	41-44	M5355	MEC	47-93
L3972	LIT	47-15	L5380	LIT	47-53	LD4008	NECJ	39-8	M4268	MEC	39-86	M5362	MEC	42-65
L3975	LIT	15-80	L5385	LIT	50-67	LD4009	NECJ	46-70	M4273	MEC	49-11	M5364	MEC	51-15
L3978	LIT	36-70	L5391-01	LIT	48-56	LD4010	♦NECJ	45-52	M4278	MEC	44-73	M5365	MEC	51-89
L3987	LIT	36-84	L5391-51	LIT	49-6	LD4011A/B	NECJ	27-76	M4325	MEC	41-18	M5366	MEC	51-97
L3989	LIT	15-51	L5391-52	LIT	49-25	LD4018	NECJ	47-19	M4326	MEC	41-19	M5367	MEC	39-83
L3990	LIT	35-13	L5391-53	LIT	48-83	LD4025A	NECJ	45-78	M4369	MEC	48-25	M5368	MEC	41-28
L3998	LIT	47-107	L5391-54	LIT	50-4	LD4034	♦NECJ	43-11	M4383A	MEC	39-37	M5369	MEC	44-59
L4064A	LIT	36-109	L5394	LIT	50-75	LD4035	♦NECJ	45-66	M4429	MEC	47-103	M5370	MEC	47-100
L4193C	LIT	33-63	L5396	LIT	50-95	LD4035A	NECJ	44-29	M4444	MEC	47-17	M5371	MEC	42-66
L4370	LIT	36-31	L5398	LIT	49-20	LD4036	NECJ	26-27	M4505E	TOSJ	35-73	M5375	MEC	39-89
L4396A	LIT	33-82	L5404	LIT	48-82	LD4050	NECJ	26-25	M4508B	TOSJ	32-23	M5376	MEC	41-52
L4419	LIT	36-81	L5405	LIT	50-12	LD4052A	♦NECJ	45-93	M4537	TOSJ	36-53	M5377	MEC	44-80
L4451	LIT	36-96	L5408	LIT	14-62	LD4061	♦NECJ	50-25	M4543	TOSJ	30-85	M5387	MEC	39-81
L4472	LIT	36-82	L5411	LIT	51-78	LD4065	NECJ	38-108	M4628	TOSJ	26-33	M5389	MEC	44-48
L4495	LIT	34-97	L5412	LIT	51-77	LD4065A	NECJ	38-109	M4634	TOSJ	24-22	M5390	MEC	47-94
L4497	LIT	34-90	L5416	LIT	39-54	LD4066	NECJ	27-45	M4826F	TOSJ	46-81	M5391	MEC	49-7
L4502	LIT	33-73	L5418	LIT	42-49	LD4067A	NECJ	40-29	M4837P	TOSJ	46-30	M5392K	♦MEC	45-9
L4516	LIT	36-107	L5420	LIT	44-14	LD4070	♦NECJ	45-46	M4837PC	TOSJ	46-31	M5462K	♦MEC	45-10
L4527	LIT	38-25	L5422	LIT	47-71	LD4086	NECJ	46-23	M5005	EEVB	35-22	M5477K	♦MEC	40-3
L4547	LIT	38-43	L5432	LIT	50-68	LD4088	♦NECJ	46-24	M5015	EEVB	31-7	M5478K	♦MEC	41-87
L4555-8902	LIT	38-39	L5435	LIT	50-69	LD4097	NECJ	27-74	M5019	EEVB	34-98	M5479K	♦MEC	44-109
L4575	LIT	37-49	L5436	LIT	38-33	LD4103	NECJ	42-71	M5020	♦EEVB	31-36	M5480K	♦MEC	48-27
L4581	LIT	37-50	L5437	LIT	46-79	LD4106/SFD349N		37-103	M5021	♦EEVB	35-52	M5508K	♦MEC	43-77
L5001	LIT	30-3	L5438	LIT	42-56		NECJ		M5022	EEVB	35-87	M5515	MEC	42-85
L5007	LIT	41-51	L5444	LIT	50-70	LD4107	NECJ	50-7	M5023	EEVB	35-5	M5517	MEC	41-21
L5008	LIT	49-51	L5486	LIT	43-12	LD4116A	NECJ	45-53	M5024	EEVB	35-85	M5518	MEC	44-49
L5009	LIT	44-78	L5487	LIT	46-106	LD4117C/D	NECJ	27-75	M5025	EEVB	35-66	M5519	MEC	49-74
L5010	LIT	41-68	L5489	LIT	46-88	LD4128	♦NECJ	45-49	M5028	EEVB	30-87	M5526	MEC	47-95
L5011	LIT	44-91	L5495	LIT	50-101	LD4130	NECJ	12-2	M5030A	♦EEVB	30-109	M5539	MEC	43-67
L5013	LIT	36-52	L5502	LIT	50-72	LD4131	NECJ	12-6	M5031	EEVB	34-105	M5549	MEC	42-86
L5014	LIT	41-17	L5521	LIT	50-37	LD4134A/B	NECJ	27-77	M5032	EEVB	32-24	M5572	MEC	48-21
L5015	LIT	44-45	L5540	LIT	40-34	LD4134C/D	NECJ	27-78	M5033	EEVB	32-33	M5600	♦MEC	45-86
L5022	LIT	48-42	L5541	LIT	50-71	LD4153	NECJ	27-51	M5034A	♦EEVB	31-78	M5605	MEC	41-97
L5035	LIT	38-8	L5542	LIT	48-80	LD4157	NECJ	12-4	M5035	♦EEVB	31-21	M5605K	♦MEC	41-98
L5036	LIT	39-100	L5546	LIT	49-67	LD4166	NECJ	45-39	M5039	EEVB	35-14	M5608	MEC	41-35
L5042	LIT	38-10	L5548	LIT	27-39	LD4170	NECJ	50-98	M5041	♦EEVB	35-33	M5610	MEC	42-96
L5043	LIT	48-8	L5550	LIT	42-16	LD4171	NECJ	12-1	M5042S	♦EEVB	34-71	M5613K	♦MEC	49-98
L5045	LIT	47-104	L5551	LIT	42-48	LD4172/SFD325	NECJ	38-17	M5043	EEVB	35-60	M5616	MEC	47-28
L5047	LIT	37-100	L5555	LIT	47-12	LD4187	NECJ	12-5	M5044	EEVB	35-83	M5633	MEC	41-22
L5049	LIT	38-13	L5558	LIT	49-91	LY30	♦FERS	47-64	M5048	EEVB	30-102	M5634	MEC	43-90
L5070	LIT	41-43	L5559	LIT	44-99	LY100	FERB	50-107	M5051	EEVB	28-104	M5635	MEC	47-60
L5071	LIT	44-72	L5560	LIT	39-105	M159A	NJRC	30-77	M5052	EEVB	29-31	M5648K	♦MEC	43-78
L5072	LIT	48-98	L5561	LIT	41-73	M177	NJRC	35-19	M5053	EEVB	36-105	M5650	MEC	44-81
L5073	LIT	48-19	L5563	LIT	49-16	M503A	EEVB	34-101	M5054	♦EEVB	36-106	M5654B	♦MEC	48-46
L5080	LIT	32-57	L5564	LIT	46-69	M504	EEVB	35-39	M5055	EEVB	37-2	M5656	MEC	51-29
L5081	LIT	27-42	L5566	LIT	48-10	M505	EEVB	35-74	M5057	♦EEVB	37-18	M5660C	MEC	51-27
L5083	LIT	44-98	L5567	LIT	48-61	M506A	EEVB	35-75	M5058	EEVB	31-4	M5662K	♦MEC	41-99
L5089	LIT	48-43	L5568	LIT	40-11	M513A	EEVB	35-8	M5059	♦EEVB	37-7	M5670K	♦MEC	40-7
L5095	LIT	41-82	L5569	LIT	42-25	M513B	EEVB	35-9	M5060	♦EEVB	37-4	M5671	MEC	48-79
L5113	LIT	36-46	L5570	LIT	39-61	M515	EEVB	35-70	M5061	♦EEVB	34-56	M5673K	♦MEC	40-8
L5115	LIT	36-85	L5571	LIT	49-21	M521	EEVB	36-12	M5062	♦EEVB	35-91	M5701	♦MEC	47-34
L5116	LIT	43-39	L5573	LIT	39-101	M523	EEVB	36-10	M5063-2J70B	EEVB	31-37	M5709	♦MEC	43-76
L5117	LIT	51-47	L5574	LIT	41-69	M525	♦EEVB	30-66	M5064H	♦EEVB	34-91	M5722K	♦MEC	51-32
L5121	LIT	43-25	L5575	LIT	44-92	M529	EEVB	33-38	M5065	EEVB	34-95	M5723K	♦MEC	51-33
L5123	LIT	45-26	L5576	LIT	49-87	M537A	EEVB	33-30	M5067	♦EEVB	34-99	M5731	♦MEC	47-35
L5126	LIT	48-44	L5577	LIT	50-64	M538A	EEVB	34-6	M5067H	♦EEVB	34-100	M5752#1	♦MEC	45-96
L5134	LIT	43-84	L5579	LIT	43-79	M539	EEVB	33-18	M5068	EEVB	36-11	M5752#2	♦MEC	48-22
L5135	LIT	42-10	L5581	LIT	49-22	M540B	EEVB	35-10	M5075	♦EEVB	33-45	M5754	♦MEC	41-74
L5137	LIT	44-79	L5584	LIT	40-83	M549	EEVB	33-17	M5076	♦EEVB	33-106	M5775K	♦MEC	50-84
L5145	LIT	34-29	L5585	LIT	39-67	M554	EEVB	29-28	M5077	♦EEVB	34-1	M5788	♦MEC	39-106
L5154	LIT	47-62	L5586	LIT	49-29	M561	EEVB	31-38	M5079A	♦EEVB	31-82	M5789	♦MEC	38-110
L5155	LIT	39-104	L5588	LIT	49-108	M565	EEVB	29-7	M5080	♦EEVB	34-5	M5790	♦MEC	47-65
L5157	LIT	49-14	L5589	LIT	43-72	M566	EEVB	30-72	M5081	♦EEVB	35-31	M5793	♦MEC	49-92

△-Registered with JEDEC
by this manufacturer

♦-Copy of mfr's data sheet
may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
M5803	♦MEC	48-47	MA2060#2	♦MIC	40-82	MKK29	OWE	21-84	PT1015	♦EMIB	26-45	QKK1060	RTN	24-64
M5804K	♦MEC	48-31	MA2063	♦MIC	40-21	MKK37	OWE	21-71	PT1016	♦EMIB	26-47	QKK1106	RTN	24-63
M5805K	♦MEC	48-32	MA2064	♦MIC	40-75	MKT25	OWE	56-75	PT1020	♦EMIB	43-105	QKK1235	RTN	21-20
M5806K	♦MEC	49-103	MA2067	♦MIC	43-45	MKT27	OWE	56-70	PT1024	♦EMIB	26-8	QKK1237	RTN	24-66
M5807K	♦MEC	49-104	MA2070	♦MIC	39-35	MKT32	OWE	56-76	PT1055	♦EMIB	27-37	QKK1288	RTN	16-99
M5808K	♦MEC	49-99	MA2072	♦MIC	39-36	MKT33	OWE	57-54	PT1120	♦EMIB	24-28	QKK1289	RTN	17-21
M5813	♦MEC	48-48	MA2074#1	♦MIC	43-44	MKT34	OWE	56-59	PT1130	♦EMIB	26-88	QKK1313	RTN	17-14
M5813A	♦MEC	48-49	MA2074#2	♦MIC	43-46	MKT35	OWE	56-60	PT1140	♦EMIB	24-23	QKK1315	RTN	19-53
M5827	♦MEC	48-105	MA2086	♦MIC	40-88	MKT36	OWE	57-63	PT1150	♦EMIB	27-38	QKK1316	RTN	17-44
M5837	♦MEC	39-53	MA2089	MIC	42-72	MKT37	OWE	56-77	QF37	♦FERS	54-69	QKK1333	RTN	18-70
M5848	♦MEC	41-107	MA2089C	♦MIC	42-73	MKT42	OWE	56-82	QF50	♦FERS	56-88	QKK1376	RTN	16-15
M5916	♦MEC	50-65	MA2089P	♦MIC	42-74	MLT29	OWE	54-11	QF451	♦FERS	52-4	QKK1399	RTN	21-88
M5919	♦MEC	50-96	MA2801	MIC	36-45	MLT33	OWE	54-16	QF451LA	♦FERS	58-45	QKK1447	RTN	24-76
M7880	TOSJ	45-90	MA2802	♦MIC	36-72	MLT40	OWE	54-17	QF451M	♦FERS	52-2	QKK1459	RTN	19-76
M7880B	TOSJ	45-87	MA2803	MIC	34-35	MLT47	OWE	54-18	QF451N	♦FERS	56-56	QKK1466	RTN	24-62
M7895	TOSJ	51-94	MA2804	MIC	37-8	MLT49	OWE	54-22	QK221	RTN	34-55	QKK1468	RTN	20-93
M9152	♦MEC	44-60	MA2805	MIC	36-30	MPT10	OWE	53-99	QK235	RTN	32-56	QKK1486	RTN	24-87
M9152C	♦MEC	44-61	MA2807	♦MIC	35-47	MPT14	OWE	53-64	QK324	RTN	36-56	QKK1491	RTN	16-11
M9162	♦MEC	48-92	MA2808	MIC	36-33	MPT15	OWE	53-83	QK327	RTN	30-50	QKK1515	RTN	20-103
M9220A	♦MEC	50-108	MA2810	MIC	36-26	MPT15A	OWE	53-86	QK338A	RTN	30-74	QKK1554	RTN	24-85
M9220C	♦MEC	51-5	MA2811	MIC	36-40	MPT16A	OWE	53-89	QK358	RTN	28-100	QKK1563	RTN	19-8
M9220G	♦MEC	50-91	MA2812	MIC	36-69	MPT18	OWE	53-75	QK381	RTN	17-1	QKK1565	RTN	17-88
M9220H	♦MEC	50-92	MA2813	MIC	32-103	MPT20	OWE	53-76	QK427	RTN	36-25	QKK1571	RTN	18-3
M9220M	♦MEC	50-53	MA2820	MIC	36-27	MPT21	OWE	53-65	QK437	RTN	31-104	QKK1583	RTN	21-1
M9243B	♦MEC	50-59	MA2822	MIC	34-88	MPT22	OWE	53-61	QK516	RTN	28-32	QKK1649	RTN	19-35
M9337	♦MEC	46-38	MA2823	MIC	34-93	MPT25	OWE	53-93	QK662A	RTN	32-58	QKK1719	RTN	15-50
M9337A	♦MEC	46-39	MA2824	MIC	34-104	MPT27	OWE	53-71	QK686	RTN	32-59	QKK1720	RTN	15-75
M9345	♦MEC	51-93	MAG12	♦MOVB	35-101	MPT28	OWE	53-90	QKA773A	RTN	12-74	QKL1066	RTN	26-94
M9346	♦MEC	51-100	MAG15	♦MOVB	35-102	MPT29	OWE	53-62	QKA1250	RTN	12-27	QKL1219	RTN	25-16
M9350	♦MEC	50-94	MAG17	♦MOVB	36-23	MPT31	OWE	53-100	QKA1252	RTN	12-36	QKL1390	RTN	24-48
M9351	♦MEC	50-55	MAG19	♦MOVB	36-75	MPT33	OWE	53-57	QKA1253	RTN	12-47	QKL1550	RTN	24-86
MA212	MIC	36-2	MAG20	♦MOVB	36-24	MPT34	OWE	53-59	QKA1257	RTN	12-72	QKS506	RTN	14-83
MA212A	MIC	35-41	MAG21A	♦MOVB	35-105	MPT35	OWE	53-60	QKA1782	RTN	12-68	QKS630	NJRC	14-5
MA212B	♦MIC	35-40	MAG21B	♦MOVB	36-5	MPT37	OWE	53-87	QKH172	RTN	34-83		RTN	
MA212C	MIC	35-42	MAG21C	♦MOVB	36-14	MPT40	OWE	53-66	QKH366	RTN	34-10	QKS642	RTN	14-8
MA212D	MIC	35-43	MAG22	♦MOVB	33-32	MPT41	OWE	53-67	QKH456	RTN	32-26	QKS653	RTN	14-9
MA214	MIC	35-95	MAG23A	♦MOVB	36-8	MPT42	OWE	53-109	QKH470	RTN	29-14	QKS783	RTN	14-12
MA214B	MIC	35-96	MAG23B	♦MOVB	36-18	MPT45	OWE	53-73	QKH539	RTN	32-32	QKS807	RTN	14-64
MA214C	MIC	35-97	MAG23C	♦MOVB	36-20	MPT47	OWE	53-74	QKH632	RTN	32-21	QKS846	RTN	14-27
MA214D	MIC	35-99	MAG23D	♦MOVB	36-22	MSC11	OWE	56-106	QKH665	RTN	28-101	QKS973	RTN	14-14
MA217	MIC	32-107	MC567	♦THC	29-9	MSC13	OWE	54-88	QKH666	RTN	29-34	QKS1130	RTN	14-61
MA217A	MIC	32-110	MC1055A	THC	31-57	MSC15	OWE	54-89	QKH713	RTN	33-55	QKS1181	RTN	14-7
MA217B	MIC	32-108	MC1055B	THC	31-58	MST16	OWE	54-33	QKH729	RTN	30-91	QKS1194	RTN	14-36
MA217C	MIC	33-1	MC1055C	THC	31-59	MST22	OWE	56-102	QKH730A	RTN	30-81	QKS1243	RTN	14-105
MA219G	MIC	34-32	MC1055D	THC	31-60	MST45	OWE	54-34	QKH731	RTN	30-59	QKS1244	RTN	14-104
MA221A	MIC	33-6	MC1055E	THC	31-61	MST48	OWE	54-42	QKH732	RTN	30-43	QKS1262	RTN	14-11
MA221B	MIC	33-5	MC1055F	THC	31-62	MXC19	OWE	56-27	QKH733	RTN	30-35	QKS1286	RTN	14-48
MA221C	MIC	33-7	MC1055G	THC	31-63	MXC20	OWE	56-35	QKH898	RTN	30-86	QKS1319	RTN	14-6
MA221D	MIC	33-8	MC1055H	THC	31-64	MXC24	OWE	55-54	QKH942	RTN	29-16	QKS1343#1	♦RTN	14-70
MA231A	MIC	33-10	MC1055I	THC	31-65	MXC25	OWE	57-31	QKH1042	RTN	29-17	QKS1343#2	♦RTN	14-76
MA231B	MIC	33-9	MC1055J	THC	31-66	MXC32	OWE	57-50	QKH1121	RTN	34-78	QKS1350	RTN	14-87
MA232A	MIC	35-46	MC1055K	THC	31-67	MXC33	OWE	56-30	QKH1131	RTN	35-94	QKS1380	RTN	14-51
MA232B	MIC	35-44	MC1055L	THC	31-68	MXC35	OWE	57-53	QKH1162	RTN	32-45	QKS1439	RTN	14-13
MA239	MIC	36-32	MC1055M	THC	31-69	MXC44#1	OWE	57-43	QKH1199	RTN	32-18	QKS1452	RTN	14-22
MA239A	MIC	36-29	MC1055N	THC	31-70	MXC44#2	OWE	55-63	QKH1214	RTN	32-80	QKS1484	♦NJRC	14-53
MA239B	MIC	36-28	MC1055O	THC	31-71	MXK12	OWE	20-7	QKH1302	RTN	38-36		RTN	
MA240	MIC	36-37	MCC12	OWE	57-14	MXK22	OWE	20-75	QKH1325	RTN	38-14	QKS1539	RTN	14-106
MA240A	MIC	36-38	MCC15	OWE	57-11	MXK32	OWE	20-3	QKH1374	RTN	34-45	QKS1540	RTN	14-33
MA240B	MIC	36-42	MCC16	OWE	55-30	MXK33	OWE	20-77	QKH1381	RTN	29-99	QKS1541	RTN	14-45
MA240C	MIC	36-39	MCC17	OWE	55-18	MXK48	OWE	19-109	QKH1448	RTN	32-1	QKS1543	RTN	14-23
MA241	MIC	34-15	MCC19	OWE	55-42	MXK54	OWE	21-16	QKH1495	RTN	37-39	QKS1544	RTN	14-25
MA245	MIC	36-43	MCC20	OWE	55-32	MXK61	OWE	19-43	QKH1512	RTN	37-72	QKS1549	RTN	14-31
MA246	MIC	36-93	MCC21	OWE	55-15	MXT27	OWE	57-32	QKH1516	RTN	38-38	QKS1552	RTN	14-49
MA246A	MIC	36-95	MCF1165	♦THC	30-13	MXT37	OWE	55-57	QKH1527	RTN	36-57	QKS1558	RTN	14-26
MA249	MIC	34-72	MCF1166	♦THC	30-14	MXT46	OWE	55-96	QKH1528	RTN	31-17	QKS1559	RTN	14-28
MA250	MIC	34-18	MCF1327	♦THC	30-25	MXT51	OWE	56-31	QKH1535	RTN	34-64	QKS1584	RTN	14-65
MA252	MIC	34-17	MCF1329	♦THC	28-94	MXT78	OWE	56-32	QKH1553	RTN	37-74	QKS1591	RTN	14-46
MA257	MIC	36-65	MCF1330	♦THC	28-102	MXT102	OWE	55-93	QKH1560	RTN	28-109	QKS1606	RTN	14-57
MA257T	MIC	36-66	MCF1331	♦THC	29-24	MXT109	OWE	57-25	QKH1569	RTN	30-55	QKS1611	RTN	14-84
MA258	MIC	36-47	MCF1492	♦THC	29-11	MXT125	OWE	57-49	QKH1578	RTN	37-40	QKS1646	RTN	14-52
MA259	MIC	32-102	MCF1493	♦THC	29-37	MXT133	OWE	56-33	QKH1579	RTN	28-95	QKS1648	RTN	14-97
MA260	MIC	36-67	MCF1510	♦THC	35-35	N1010	EEVB	13-20	QKH1589	RTN	29-15	QKS1672	RTN	14-29
MA261	MIC	33-51	MCT11	OWE	55-49	N1016M	EEVB	43-100	QKH1592	RTN	37-93	QKS1697	RTN	14-86
MA262	MIC	33-14	MCT12	OWE	53-50	N1017M	EEVB	39-59	QKH1599	RTN	31-84	QKS1705	RTN	14-108
MA264	MIC	36-36	MCT15	OWE	55-9	N1029	EEVB	45-108	QKH1663	RTN	38-40	QKS1729	RTN	14-98
MA265	MIC	33-100	MCT18	OWE	53-36	N1033	EEVB	43-50	QKH1665	RTN	37-82	QKW750B	RTN	41-84
MA266	MIC	34-37	MCT19	OWE	55-20	N1034	EEVB	12-95	QKH1666	RTN	37-78	QKW750C	RTN	42-18
MA270	MIC	34-16	MCT20	OWE	56-110	N1038	EEVB	46-96	QKH1667	RTN	37-21	QKW1013	RTN	39-64
MA271	MIC	34-33	MCT21	OWE	55-47	N1042M	EEVB	42-33	QKH1693	RTN	37-108	QKW1132	RTN	48-17
MA272	MIC	33-52	MCT24	OWE	54-104	N1045M	EEVB	42-52	QKH1708	RTN	37-83	QKW1309	RTN	48-23
MA273	MIC	36-50	MCT27	OWE	55-33	N1047M	EEVB	40-107	QKH1709	RTN	37-62	QKW1331	RTN	48-69
MA274	MIC	36-51	MCT28	OWE	55-21	N1055	EEVB	45-109	QKH1744	RTN	29-84	QKW1389	RTN	49-13
MA277	♦MIC	33-104	MCT29	OWE	55-2	N1056	EEVB	43-63	QKH1757	RTN	37-110	QKW1514	RTN	51-75
MA278	♦MIC	36-16	MCT36	OWE	54-103	N1061	♦EEVB	47-14	QKH1763	RTN	37-77	QKW1518	RTN	39-55
MA279	MIC	36-17	MCT37	OWE	55-13	N1065	♦EEVB	50-28	QKH1777	RTN	29-100	QKW1518SG	RTN	39-57
MA281	♦MIC	36-35	MCT38	OWE	57-19	N1070	♦EEVB	45-57	QKH1793	RTN	37-22	QKW1542	RTN	49-64
MA285	MIC	34-34	MCT40	OWE	55-43	N1071	♦EEVB	46-100	QKK404	RTN	15-106	QKW1630	RTN	38-104
MA286	♦MIC	37-9	MCT41	OWE	57-3	N1072	♦EEVB	45-110	QKK412	RTN	15-95	QKW1638	RTN	48-107
MA287	♦MIC	36-60	MCT43	OWE	55-53	N1073	♦EEVB	43-52	QKK531	RTN	18-2	QKW1652	RTN	49-28
MA293	MIC	33-13	MCT44	OWE	57-1	N1073Z	EEVB	42-81	QKK532	RTN	18-31	QKW1668	RTN	50-39
MA294	MIC	33-86	MCT45	OWE	54-108	N1075	♦EEVB	49-60	QKK549	RTN	17-57	QKW1671	RTN	39-56
MA2003	♦MIC	39-1	MCT46	OWE	55-48	N1077	♦EEVB	46-87	QKK623	RTN	18-60	QKW1701	RTN	39-63
MA2009	♦MIC	39-18	MCV1055E	♦THC	30-105	N1078	♦EEVB	46-77	QKK752	RTN	18-64	QKW1704	RTN	49-4
MA2010	♦MIC	38-105	MCV1055F	♦THC	31-41	N1079	EEVB	47-110	QKK753	RTN	19-7	QKW1722	RTN	39-65
MA2011	♦MIC	39-48	MCV1055G	♦THC	31-80	N1080	♦EEVB	48-33	QKK754A	RTN	17-60	QKW1723	RTN	39-62
MA2014	♦MIC	39-21	MCV1125	♦THC	34-42	N1081	EEVB	50-85	QKK755A	RTN	18-13	QKW1724	RTN	48-51
MA2015	♦MIC	38-100	MCV1170	♦THC	38-7	N1082	EEVB	50-62	QKK756A	RTN	18-40	QKW1734	RTN	48-108
MA2016	♦MIC	38-99	MCV1300	♦THC	37-51	N1083	EEVB	46-55	QKK758A	RTN	18-66	QKW1740	RTN	48-52
MA2017	♦MIC	39-38	MCV1352	♦THC	29-8	N1086	EEVB	43-8	QKK759A	RTN	19-10	QKW1741	RTN	48-53
MA2019	♦MIC	39-49	MCV1353	♦THC	29-35	N1093	♦EEVB	50-46	QKK822	RTN	21-50	QKW1742	RTN	50-82
MA2023	♦MIC	38-102	MCV1420	♦THC	37-30	N1094	♦EEVB	43-86	QKK826	RTN	21-10	QKW1750	RTN	40-18
MA2024	♦MIC	39-42	MCV1421	♦THC	32-46	N1095	♦EEVB	50-48	QKK833A	RTN	21-52	QKW1751	RTN	50-40
MA2030	♦MIC	39-46	MCV1471	♦THC	33-107	N10000	EEVB	46-99	QKK860	RTN	19-52	QKW1753	RTN	43-98
MA2032	♦MIC	40-54	MCV1479	♦THC	37-52	N10001-1	♦EEVB	45-107	QKK869	RTN	21-34	QKW1767	RTN	17-47
MA2033	♦MIC	39-40	MG9T4	♦LMTF	37-3	N10001-2	♦EEVB	46-33	QKK873	RTN	21-74	QKW1768	RTN	19-44
MA2037	♦MIC	39-34	MG60T1	♦LMTF	36-3	N10002	EEVB	43-49	QKK877	RTN	21-60	QKW1769	RTN	19-45
MA2038	♦MIC	42-14	MG86T1	♦LMTF	30-21	N10003	EEVB	45-74	QKK878	RTN	21-19	QKW1789	RTN	20-30
MA2044	♦MIC	41-45	MG1500	♦ALGG	30-28	N10004	♦EEVB	42-82	QKK879	RTN	21-35	QKW1802	RTN	24-45
MA2045	♦MIC	44-64	MKK12	OWE	21-70	N10007	EEVB	43-85	QKK910	RTN	18-12	QKW1803	RTN	24-49
MA2046	♦MIC	49-47	MKK16	OWE	21-73	NF42	♦FERS	56-10	QKK965	RTN	17-59	R5146	EMIB	22-63
MA2047	♦MIC	50-38	MKK22	OWE	21-72	NF43	♦FERS	56-11	QKK967	RTN	18-65	R5222	EMIB	19-21
MA2050	♦MIC	38-101	MKK25	OWE	21-97	PT1001	♦EMIB	28-12	QKK968	RTN	19-9	R6010	EMIB	17-13
MA2055	♦MIC	40-22	MKK26	OWE	21-110	PT1006	♦EMIB	26-41	QKK978	RTN	21-51	R6015	EMIB	17-10
MA2060#1	♦MIC	40-81	MKK26A	OWE	22-7	PT1010	♦EMIB	26-46	QKK1022	RTN	20-80	R9518	EMIB	22-40

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
R9521	EMIB	22 - 69	SFD319	VET	38 - 42	STS288	SPY	40 - 93	TH3541	THC	50 - 23	TV2019	♦THC	15 - 58
R9546	EMIB	22 - 64	SFD325	♦VET	38 - 19	STU52271	SPY	51 - 34	TH4011	♦THC	14 - 40	TV2019W	♦THC	15 - 59
R9559	EMIB	16 - 84	SFD325A	♦VET	38 - 20	STU52273	SPY	51 - 62	TH4012	♦THC	14 -110	TV2022	♦THC	15 - 42
R9602	EMIB	22 - 36	SFD327W	VET	38 - 41	STU54300	SPY	51 - 31	TH9116	♦THC	43 - 89	TV2024	♦THC	15 - 96
R9621	EMIB	22 - 20	SFD332	♦VET	38 - 45	STU54302	SPY	50 -100	TH9121A	♦THC	41 - 81	TV2028	♦THC	15 - 64
R9622	EMIB	22 - 19	SFD333	♦VET	37 - 70	STU54312	SPY	51 - 59	TH9128	♦THC	43 - 93	TV2030	♦THC	15 - 5
R9625	EMIB	21 - 91	SFD333T	VET	37 - 73	STU54313	SPY	51 - 63	TH9131	♦THC	41 - 61	TV2032	♦THC	16 - 9
R9626	EMIB	22 - 4	SFD333TM	VET	34 - 21	STU54314	SPY	51 - 1	TH9140	THC	40 -108	TV2042	♦THC	15 - 6
R9674	EMIB	22 - 49	SFD341	♦VET	37 - 31	STU61000	SPY	50 - 47	TH20101	THC	49 - 54	TV2053	♦THC	15 - 3
R9675	EMIB	22 - 26	SFD342	♦VET	38 - 26	STX5220	♦SPY	48 - 72	TH20102	THC	51 - 41	TV2091	♦THC	15 - 7
R9676	EMIB	21 - 95	SFD344	VET	37 - 27	STX5221	SPY	48 - 34	TH20107	THC	46 - 10	TV2092	♦THC	15 - 4
R9687	EMIB	18 - 42	SFD345	♦VET	38 - 35	STX5222	SPY	48 - 35	TK6	♦ALGG	18 - 43	TV2125CBA	♦THC	17 - 19
R9689	EMIB	19 - 22	SFD347	VET	37 - 34	STX5223	SPY	47 - 29	TK8	♦ALGG	16 -101	TV2125CBB	♦THC	17 - 23
R9696	EMIB	20 - 20	SFD349	♦EMIB	37 - 53	STX5224	♦SPY	48 -103	TK61	♦ALGG	18 - 44	TV2126	♦THC	17 - 15
R9701	EMIB	18 - 15		♦VET		STX5225	♦SPY	49 - 61	TK76⍁	♦ALGG	16 - 96	TV2211A	♦THC	21 - 30
R9729	EMIB	22 - 38	SFD349F	♦VET	37 - 63	STX5225-1	♦SPY	49 - 65	TL4	♦ALGG	40 - 55	TV2211B	♦THC	21 - 31
R9760	EMIB	18 - 78	SFD349FL	♦VET	37 - 64	STX5226-1	♦SPY	48 -104	TL6	♦ALGG	43 - 2	TV2211C	♦THC	21 - 32
RW2	SIEG	40 - 44	SFD349H0-1	♦VET	37 - 45	STX52201	SPY	49 - 59	TL363	♦NJRC	58 - 39	TV2211D	♦THC	21 - 33
RW21	SIEG	40 - 86	SFD349N	♦VET	37 -104	STX52202	SPY	48 - 36	TL368	♦NJRC	58 - 40	TV2212A	♦THC	21 - 28
RW42	SIEG	43 - 7	SFD352	VET	37 - 54	STX52203	SPY	46 - 86	TL8101	♦ALGG	47 - 56	TV2212B	♦THC	21 - 29
RW80	SIEG	46 - 46	SFD354A	♦VET	37 - 55	STX52211	SPY	49 -105	TL16000	♦ALGG	51 - 79	TV2215A	♦THC	20 -109
RW81	SIEG	46 - 49	SFD354G	♦VET	37 - 76	STX52221	SPY	49 - 62	TN162	SGN	12 - 9	TV2216A	♦THC	21 - 45
RW617#1	WAR	14 - 18	SFD354H	VET	37 - 42	STX52251	♦SPY	49 - 63	TN163	SGN	12 - 11	TV2216B	♦THC	21 - 46
RW617#2	WAR	14 - 16	SFD356	♦VET	37 - 24	STX52252	♦SPY	50 - 2	TN164	SGN	12 - 12	TV2216C	♦THC	21 - 47
RW617#3	WAR	14 - 15	SFD363	♦VET	37 - 98	STX52260	SPY	48 - 37	TN165	SGN	12 - 14	TV2217H	♦THC	19 - 61
RW618#1	♦WAR	14 - 60	SFD367	♦VET	37 - 56	STX52270	♦SPY	50 - 10	TN166	SGN	12 - 16	TV2218	♦THC	20 - 99
RW618#2	♦WAR	14 - 59	SFD370	VET	37 - 75	STX52272	SPY	50 - 66	TN167	SGN	12 - 15	TV2226	♦THC	21 - 65
RW618#3	♦WAR	14 - 58	SFD372	♦VET	37 - 23	STX52280	SPY	49 -106	TN170	SGN	12 - 8	TV2246A	♦THC	21 - 17
RW619#1	WAR	14 - 34	SFD373	♦VET	37 - 32	STX54400	♦SPY	49 -107	TN171	SGN	12 - 13	TV2246B	♦THC	21 - 27
RW619#2	WAR	14 - 30	SFD373E	♦VET	37 - 28	STX54401	SPY	49 - 66	TN172	SGN	12 - 10	TV2246X	♦THC	21 - 25
RW619#3	WAR	14 - 24	SFD375	♦VET	37 - 69	SY31	FERB	24 - 46	TN173	SGN	12 - 17	TV2350	♦THC	24 - 44
RW620#1	WAR	14 - 80	SFD377A	♦EMIB	37 -101	SY41	FERB	26 - 86	TOP251A	♦THC	40 - 27	TV2412M	♦THC	17 - 34
RW620#2	WAR	14 - 79		♦VET		SY60	FERB	26 - 87	TOP851	♦THC	42 - 78	TV3212	THC	52 -102
RW620#3	WAR	14 - 78	SFD380	♦VET	37 - 79	SZ22	FERB	24 - 43	TOP1203	♦THC	44 - 87	TV3214	THC	52 -101
RW1120C	SIEG	50 - 42	SFD380A	♦VET	37 - 80	SZ31	FERB	24 - 39	TOP1222	♦THC	46 -108	TV3215	THC	52 - 97
RW1121	♦SIEG	50 - 43	SFD380F	♦VET	37 -102	T337	♦NJRC	57 - 51	TOP1226	♦THC	51 - 42	TV3301	♦THC	56 - 19
RW040	SIEG	13 - 75	SFD381	NECJ	37 - 57	T340	♦NJRC	56 - 36	TOP1289	♦THC	41 - 63	TV3304	♦THC	54 - 58
RW050	SIEG	13 - 80		♦VET		T341	♦NJRC	56 - 39	TOP1293	♦THC	42 - 41	TV3308	♦THC	56 - 79
RW060	SIEG	13 - 84	SFD382	♦VET	37 - 67	T342	♦NJRC	56 - 37	TOP1294	♦THC	40 - 19	TV3309	♦THC	57 - 69
RW075	SIEG	13 - 88	SFD383	♦VET	37 - 26	T343	♦NJRC	52 - 82	TOP1304	♦THC	42 - 29	TV3340	♦THC	55 - 97
RW080	SIEG	13 - 97	SFD386	♦VET	37 - 58	T347	♦NJRC	52 - 8	TOP1334	♦THC	48 - 38	TV3340A	♦THC	55 - 98
RW0110B	SIEG	13 -103	SFD511	VET	15 - 2	T350	♦NJRC	53 - 15	TOP1369	♦THC	50 - 27	TV3340B	♦THC	56 - 17
SAC41	SPY	25 - 9	SFD605	VET	14 - 20	T351	♦NJRC	57 - 33	TOP1401	♦THC	45 -100	TV3362	♦THC	57 - 70
SAC42	SPY	25 - 14	SFD612	VET	14 - 17	T352	♦NJRC	57 - 48	TOP1407	♦THC	46 - 72	TV3372	♦THC	57 - 55
SAC45A	SPY	25 - 11	JANSOU293	none	24 - 78	T353	♦NJRC	57 - 42	TOP1432	♦THC	45 - 13	TV19111	♦THC	55 - 92
SAC46	SPY	25 - 12	SOX2397	SPY	24 - 47	T356	♦NJRC	54 - 66	TOP1487	♦THC	45 - 48	TV19112C	♦THC	56 - 67
SAC47	SPY	25 - 13	SRC64D1	SPY	17 - 40	T364	♦NJRC	56 - 78	TV55	♦THC	20 - 65	TV19114	♦THC	56 - 58
SAC167	SPY	27 - 63	SRK4642	SPY	22 - 22	T365	♦NJRC	57 - 68	TV55E	♦THC	20 - 61	TWC5	♦MOVB	45 - 58
SAC225	SPY	25 - 10	SRL7C	SPY	16 - 58	T370	♦NJRC	52 - 23	TV55F	♦THC	19 - 29	TWC5A	♦MOVB	46 - 90
SAL89	♦LMTF	24 -105	SRL7CH	SPY	16 - 61	TH1725B	♦THC	35 - 20	TV58	♦THC	20 - 5	TWC5B	♦MOVB	46 - 44
SAL219	SPY	24 -107	SRL7F	SPY	16 - 54	TH2046	♦THC	15 - 44	TV210B	♦THC	20 - 78	TWC5C	MOVB	46 - 12
SAL415	SPY	24 -102	JANSRL7F	none	16 - 55	TH2047	♦THC	15 - 65	TV217C	♦THC	19 - 60	TWC14	♦MOVB	45 - 98
SAL0893	SPY	15 - 27	SRL7G	SPY	16 - 59	TH2047P	♦THC	15 - 81	TV217CH	♦THC	19 - 65	TWC14A	♦MOVB	46 - 92
SAL2191	SPY	15 - 28	JANSRL7G	none	16 - 60	TH2048	♦THC	15 - 24	TV220A	♦THC	18 - 85	TWC14B	♦MOVB	46 - 47
SAL4151	SPY	15 - 26	SRL7H	SPY	16 - 63	TH2050	♦THC	15 - 13	TV220B	♦THC	17 - 91	TWC14C	MOVB	46 - 13
SAS60A	SPY	25 - 8	JANSRL7H	none	16 - 68	TH2051	♦THC	15 - 19	TV220C	♦THC	17 - 92	TWC18	MOVB	44 - 50
SAS60B	SPY	25 - 5	SRL17	SPY	16 - 48	TH2052	♦THC	15 - 23	TV220D	♦THC	17 - 93	TWC27	♦MOVB	44 - 40
SAS61	SPY	25 - 4	SRU55A/B	SPY	21 -102	TH2054	♦THC	15 - 48	TV220E	♦THC	17 - 94	TWC35	♦MOVB	45 - 63
SAS5310	SPY	26 - 48	SRU210	SPY	21 -100	TH2056	♦THC	15 - 70	TV220F	♦THC	17 - 95	TWC35A	♦MOVB	46 - 93
SAX4701	SPY	15 -109	SRU216	SPY	21 -103	TH2061	♦THC	15 - 69	TV220G	♦THC	17 - 96	TWC35B	♦MOVB	46 - 48
SAX4705	SPY	26 - 85	SRU223	SPY	21 -104	TH2062	♦THC	15 - 12	TV220J	♦THC	17 - 25	TWC35C	♦MOVB	46 - 16
SBE4023	SPY	13 - 99	SRU419	SPY	22 - 5	TH2063	♦THC	15 - 18	TV221A	♦THC	18 - 95	TWC37	♦MOVB	45 - 59
SBF4221	SPY	13 -102	SRU2161	SPY	22 - 3	TH2064	♦THC	15 - 22	TV221B	♦THC	17 -105	TWC37A	♦MOVB	46 - 91
SBM4212	SPY	13 - 86	SRU4191	SPY	22 - 6	TH2067	♦THC	15 -105	TV221C	♦THC	17 -106	TWC37B	♦MOVB	46 - 45
SBU4530	SPY	13 - 59	SRU4192	SPY	22 - 8	TH2068	THC	15 - 36	TV221D	♦THC	17 -107	TWC37C	♦MOVB	46 - 15
SBU4531	♦SPY	13 - 50	SRU4195	SPY	22 - 2	TH2069	THC	28 - 9	TV221E	♦THC	17 -108	TWJ20	♦MOVB	51 - 36
SBU4532	♦SPY	13 - 51	SRU4430	SPY	21 -109	TH2210C	♦THC	20 - 76	TV221F	♦THC	17 -109	TWJ29	♦MOVB	51 - 65
SBV4370	SPY	13 - 77	SRU4431	SPY	22 - 9	TH2232	THC	19 - 80	TV221G	♦THC	17 -110	TWJ30	♦MOVB	51 - 66
SBX2980	SPY	13 - 28	SRV4400	SPY	22 - 65	TH2404	♦THC	15 - 49	TV221H	♦THC	17 - 27	TWJ33	♦MOVB	51 - 12
SE209A50	♦WJC	13 - 41	SRV5250	SPY	22 - 66	TH2406	♦THC	15 - 45	TV221K	♦THC	18 - 1	TWS6	MOVB	42 - 55
SE211A50	♦WJC	13 - 5	SRV5390	SPY	22 - 58	TH2407	♦THC	15 - 94	TV222A	♦THC	18 - 86	TWS7	MOVB	41 - 53
SE211B50	♦WJC	12 -110	SRX424	SPY	20 - 42	TH2408	♦THC	24 - 75	TV222B	♦THC	17 - 97	TWS10/7642	♦MOVB	40 - 41
SE214-50	♦WJC	12 - 84	SRX0921	SPY	20 - 56	TH2409	♦THC	15 -104	TV222C	♦THC	17 - 98	TWS12	♦MOVB	40 - 62
SE214A50	♦WJC	12 - 83	SRX0923	SPY	20 - 46	TH2410	♦THC	16 - 5	TV222D	♦THC	17 - 99	TWS17	♦MOVB	42 - 30
SE215-50	♦WJC	12 - 91	SRX0926	SPY	20 - 17	TH2602	♦THC	55 - 44	TV222E	♦THC	17 -100	TWS24	♦MOVB	40 - 57
SE215A50	♦WJC	12 - 92	SRX4591	SPY	19 - 33	TH2605	♦THC	56 - 4	TV222F	♦THC	17 -101	TWS25	♦MOVB	40 - 24
SE218-50	♦WJC	13 - 66	SRX4592	SPY	19 - 32	TH2606	♦THC	54 - 65	TV222G	♦THC	17 -102	TWS26	♦MOVB	42 - 31
SE219-50	♦WJC	12 - 85	SRX4594	SPY	19 - 82	TH2607	♦THC	56 - 1	TV232	♦THC	20 - 51	TWS32	♦MOVB	40 - 63
SE220-50	♦WJC	13 - 46	SRX4597	♦SPY	19 - 36	TH2608	♦THC	55 -110	TV242	♦THC	20 - 60	TWS36	♦MOVB	40 - 42
SE221-50	♦WJC	12 -100	SRX4770	SPY	20 - 12	TH3039	♦THC	34 - 43	TV244	♦THC	18 - 16	TWX8	MOVB	48 - 78
SE222	WJC	13 - 70	SRX4771	SPY	19 - 88	TH3041A	♦THC	33 - 46	TV244A	THC	17 - 62	TWX16	MOVB	47 - 72
SE222-50	♦WJC	13 - 72	SRX4772	SPY	20 - 8	TH3041B	♦THC	33 - 91	TV244B	THC	18 - 26	TWX19	MOVB	48 - 94
SFD217	VET	14 -101	SRX4950	SPY	18 - 94	TH3042	♦THC	29 - 41	TV244C	THC	18 - 72	TWX22	♦MOVB	47 - 4
SFD218	VET	14 - 95	SRX4952	SPY	18 -108	TH3043	♦THC	37 - 59	TV244E	THC	19 - 1	TWX28	♦MOVB	47 - 88
SFD218A	VET	14 - 90	SRX4954	SPY	19 - 24	TH3049	♦THC	33 - 74	TV244F	THC	19 - 12	TWX34	♦MOVB	48 - 12
SFD222	♦VET	14 - 72	SRX4955	SPY	20 - 21	TH3057	♦THC	29 - 10	TV244H	THC	17 - 28	USAF304	VET	37 - 68
SFD222A	VET	14 - 73	SRX4956	SPY	20 - 74	TH3060B	♦THC	31 - 2	TV244K	THC	17 - 37	USAF377A	RTN	37 - 99
SFD223	VET	14 -100	SRX4957	SPY	21 - 3	TH3061	♦THC	29 - 1	TV246	♦THC	21 - 58		VET	
SFD225	VET	14 - 4	STC124	SPY	43 - 97	TH3064	THC	34 - 68	TV259	♦THC	18 - 47	V23	VAR	24 - 58
SFD227	VET	14 - 89	STC152	SPY	44 - 12	TH3066	THC	37 - 60	TV259A	THC	17 - 63	V24E	VAR	27 -105
SFD231	♦VET	14 - 63	STC278	SPY	44 - 5	TH3069	THC	29 - 6	TV259B	THC	18 - 19	V39B	NECJ	21 - 55
SFD232	♦VET	14 - 91	STC279	SPY	44 - 2	TH3070	THC	29 - 38	TV259C	THC	18 - 73	V39B/C	♦VAR	21 - 61
SFD233	♦VET	14 - 93	STC5210	♦SPY	44 - 22	TH3501	♦THC	48 - 50	TV259E	THC	19 - 2	V40B/C	♦VAR	22 - 14
SFD236	♦VET	15 - 1	STC5213	SPY	43 - 95	TH3503	♦THC	40 - 59	TV262	♦THC	19 -104	V53B/C	♦VAR	21 - 9
SFD237	VET	14 - 74	STC5214	SPY	43 -103	TH3505	♦THC	38 - 95	TV313	♦THC	37 - 33	V55B	VAR	20 - 66
SFD238	VET	14 - 54	STC5215	SPY	43 - 73	TH3507	♦THC	45 - 54	TV514	THC	24 - 52	V55D	VARC	20 - 59
SFD240	VET	14 - 99	STC5216	SPY	45 - 15	TH3508	♦THC	45 - 77	TV514B	♦THC	24 - 53	V55E	VARC	20 - 62
SFD241	VET	14 - 94	STC52131	♦SPY	46 - 42	TH3509	♦THC	48 - 29	TV517	♦THC	24 - 59	V55F	VARC	19 - 30
SFD242	VET	14 - 96	STC52132	SPY	47 - 11	TH3511	♦THC	48 -102	TV848	♦THC	16 - 6	V58C	VAR	20 - 14
SFD243	VET	14 - 55	STC52151	SPY	43 - 55	TH3513	♦THC	50 - 97	TV851	♦THC	16 - 8	V154	VAR	21 - 24
SFD244	VET	14 - 66	STC52152	SPY	43 - 75	TH3515	♦THC	46 - 14	TV1255B	♦THC	33 - 33	V157	VAR	20 - 2
SFD244A	♦VET	14 - 67	STC52161	♦SPY	45 - 76	TH3516	♦THC	38 - 96	TV1505	♦THC	32 - 30	V190C/1M	STCB	16 - 43
SFD246	VET	14 - 19	STC52162	SPY	43 - 69	TH3518	♦THC	40 - 13	TV1546	♦THC	32 - 50	V238A/1K	STCB	15 - 85
SFD249	VET	14 - 71	STC52163	SPY	43 - 96	TH3519	♦THC	40 - 61	TV1547	♦THC	38 - 21	V239C/1K	STCB	15 - 86
SFD250	VET	14 - 68	STC52165	SPY	45 - 79	TH3522	♦THC	46 - 5	TV2001	♦THC	15 - 40	V241C/1K	STCB	15 - 87
SFD252	VET	14 - 77	STC54402	SPY	45 - 11	TH3524	♦THC	47 - 61	TV2001W	♦THC	15 - 41	V243A-3FS	♦STCB	15 - 88
SFD254	VET	14 - 56	STL161	SPY	39 - 58	TH3525	♦THC	50 - 26	TV2002	♦THC	15 - 61	V243A/2F	STCB	15 - 89
SFD257	♦VET	14 - 75	STL199	SPY	39 - 60	TH3528	♦THC	50 - 44	TV2011	♦THC	15 - 60	V246A/1K	STCB	15 - 90
SFD303	VET	37 -106	STL257	SPY	39 - 32	TH3529	♦THC	50 - 45	TV2012	♦THC	15 - 55	V246A/2K	STCB	15 - 92
SFD303B	VET	37 - 84	STL260	SPY	39 -110	TH3531	THC	40 - 9	TV2013	♦THC	15 - 54	V247C/1K	STCB	15 - 91
SFD304	VET	37 - 66	STL405	SPY	39 - 19	TH3532	THC	41 -100	TV2014	♦THC	15 - 62	V262	♦VAR	19 -105
SFD305	♦VET	37 - 88	STL2221	SPY	39 - 90	TH3533	THC	45 - 12	TV2015	♦THC	15 - 63		VARC	
SFD313A	♦VET	37 - 35	STS276	SPY	42 - 68	TH3536	THC	50 - 49	TV2017	♦THC	15 - 56	V270	VAR	19 - 87
SFD313B	♦VET	37 - 36	STS284	SPY	41 - 46	TH3540	THC	45 - 34	TV2018	♦THC	15 - 57	V270/6312	♦VET	19 - 95

△-Registered with JEDEC
by this manufacturer

♦-Copy of mfr's data sheet
may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
V271C/3M	STCB	16- 44	VA253	VAR	22- 17	VA645G	VAR	42- 57	VA955A/B	♦EMIB	27- 28	VKH2405A1	♦VARC	27- 96
V275C/3M	STCB	16- 45	VA259	VAR	18- 22	VA651	VAR	39- 15	VA955A/B/G	VAR	27- 29	VKK7009	♦VAR	24- 81
V290/6314	♦VAR	20- 47	VA259A	VAR	17- 64	VA664A	VAR	40- 35	VA956	VAR	27-100	VKL7755	VAR	27- 36
	♦VET		VA259AT	VAR	17- 58	VA800E	VAR	26- 20	VA958A	VAR	25- 56	VKL7759	VAR	27- 44
VA87B	♦VAR	26- 31	VA259B	VAR	18- 20	VA802B	NECJ	26- 18	VA961	VAR	28- 19	VKL7760	VAR	28- 13
VA87C	♦VAR	26- 35	VA259BT	VAR	17- 89	VA804	VARC	26- 65	VA963A	♦VAR	27- 41	VKL7774	VAR	15- 39
VA87E	♦VAR	28- 10	VA259C	VAR	18- 74	VA808	VAR	26- 74	VA988	VAR	26- 57	VKL7783	VAR	28- 8
VA92	VAR	21- 98	VA259CT	VAR	18- 67	VA811	♦VAR	15- 76	VA988A	VAR	26- 55	VKL7796	♦VAR	27- 43
VA92B	VAR	21- 83	VA259DT	VAR	18- 39	VA811B	♦VAR	15- 77	VA988B	VAR	27- 61	VKL7800	♦VAR	28- 7
VA92H	VAR	21- 56	VA259E	VAR	19- 3	VA811C	♦VAR	15- 78	VA988C	VAR	26- 69	VKP7758	♦VAR	27- 34
VA94	VAR	22- 1	VA259ET	VAR	19- 11	VA812D	VAR	26- 99	VBC7506M	VAR	13- 3	VKQ2420A	♦VARC	16- 20
VA94B	VAR	21-101	VA259F	VAR	19- 14	VA812E	♦VAR	26-100	VBX7504M	VAR	13- 42	VKQ2420B	♦VARC	16- 21
VA97	VAR	22- 59	VA259FT	VAR	19- 15	VA816J	♦VAR	15- 82	VBX7505M	VAR	13- 47	VKQ2420C	♦VARC	16- 18
VA97B	VAR	22- 51	VA259J	VAR	17- 16	VA820	♦VAR	26- 36	VC102	VARC	20- 86	VKQ2420D	♦VARC	16- 19
VA98	VAR	22- 32	VA259N	VAR	18- 11	VA820C	♦VAR	26- 37	VC103A	VARC	21- 76	VKQ2420E	VARC	16- 22
VA98J	VARC	22- 30	VA259P	VAR	19- 6	VA820D	VAR	26- 38	VC103B	VARC	21- 57	VKQ2420F	VARC	16- 23
VA98M	VARC	22- 33	VA259R	VAR	18- 68	VA820E	VAR	26- 39	VC103C	VARC	21- 77	VKQ2420G	♦VARC	16- 16
VA113	VAR	17- 66	VA259T	VAR	17- 17	VA820F	VAR	26- 40	VC103D	VARC	21- 75	VKQ2420H	♦VARC	16- 17
VA114	VAR	18- 25	VA264	VAR	18- 98	VA838	VAR	27- 35	VC103E	VARC	21- 78	VKS7761	VAR	28- 14
VA115	VAR	18- 63	VA265	VAR	19- 73	VA838B	♦EMIB	27- 40	VC722A	VARC	19- 31	VKS7770	♦VAR	15- 46
VA118A	VAR	17- 36	VA266A	VAR	20- 89		♦VAR		VDC1006	♦VET	57-100	VKS7793	♦VAR	26- 24
VA145B	VAR	24- 27	VA270VP6915	VARC	19-110	VA839	♦VAR	28- 11	VDC1008	♦VET	57-105	VKS7795	VAR	15- 43
VA145D	VAR	24- 25	VA272	VAR	20- 49	VA842	VAR	25- 20	VDC1020	♦VET	57-101	VKT2411E	♦VARC	16- 41
VA145E	♦VAR	24- 29	VA273B	VAR	20- 87	VA845	♦VAR	26- 89	VDC1025	♦VET	57-102	VKT2411F	♦VARC	16- 42
VA145F	VAR	24- 32	VA273D	VAR	19- 34	VA846	VARC	26- 66	VDC1026	♦VET	57- 99	VKT2411G	♦VARC	16- 39
VA145H	♦VAR	24- 24	VA273G	VAR	19- 83	VA853	VAR	27- 33	VDC1029	♦VET	57-106	VKT2411H	♦VARC	16- 40
VA145J	VAR	24- 31	VA273H	VAR	20- 25	VA853M	VAR	27- 30	VDC1032	♦VET	57-103	VKU7008	♦VAR	24- 74
VA145UH	♦VAR	24- 30	VA275A	VAR	22- 13	VA861	VAR	26- 81	VDK1000	♦VET	58- 67	VKU7763	VAR	26- 97
VA145UL	♦VAR	24- 26	VA275B/C	VAR	21-108	VA862A	VAR	27- 31	VDS1003	♦VET	57- 88	VKU7791	VAR	28- 1
VA146	♦VAR	24- 36	VA275D	VAR	22- 10	VA864M	VAR	26- 79	VDS1006	♦VET	57- 80	VKX2402A1	VARC	24- 50
VA146C	VAR	24- 35	VA282	VAR	22- 28	VA866	VAR	26- 82	VDS1007	♦VET	57- 78	VKX7006	VAR	25- 15
VA146M	VAR	24- 34	VA282AD	VAR	22- 16	VA869A	VAR	26- 93	VDS1011	♦VET	57- 79	VKX7750	VAR	27-104
VA160E	VAR	12-102	VA282D	VAR	22- 15	VA870	VAR	26- 91	VDS1013	♦VET	57- 90	VKX7751	VAR	27-106
VA160M	VAR	13- 7	VA282E	VAR	22- 37	VA874B	♦VAR	27-102	VDS1014	♦VET	57- 82	VKX7752	VAR	16- 3
VA160N	VAR	12-106	VA283	VAR	22- 45	VA874E	VAR	27- 99	VDS1015	♦VET	57- 84	VKX7753	♦VAR	27- 98
VA161F	VAR	13- 30	VA286	VAR	21- 80	VA876	♦EMIB	27- 81	VDS1018	♦VET	57- 96	VKX7765A	VAR	16- 7
VA161M	VAR	13- 39	VA287	VAR	21- 37		VAR		VDS1019	♦VET	57- 77	VKX7769	VAR	27-101
VA162F	VAR	13- 48	VA287A	VAR	21- 22	VA879	VAR	27- 82	VDS1020	♦VET	57- 92	VKX7780B	VAR	27- 89
VA162M	VAR	13- 54	VA287B	VAR	21- 36	VA879G	VAR	15-107	VDS1021	♦VET	57- 94	VKX7780C	VAR	27- 90
VA163M	VAR	13- 65	VA287C	VAR	21- 53	VA883	VAR	27- 80	VDS1022	♦VET	57- 81	VKX7780D	VAR	27- 88
VA164M	VAR	13- 71	VA287D	VAR	21- 59	VA884B	VAR	27- 72	VDU1001	♦VET	58- 66	VKX7780H/M	VAR	27- 92
VA173M	VAR	13- 22	VA288A	VAR	20-101	VA884C	VAR	27- 73	VDU1002	♦VET	58- 63	VKX7780J	VAR	27- 91
VA173T	VAR	13- 33	VA297	VAR	19- 84	VA884D	♦VAR	27- 79	VDU1014	♦VET	58- 60	VKX7780S	VAR	27- 86
VA173TA	VAR	13- 35	VA297T	VAR	18-110	VA888	VAR	26- 56	VDU1015	♦VET	58- 61	VKX7780V	VAR	27- 85
VA175M	VAR	13- 34	VA297U	VAR	19- 23	VA890A	VAR	25- 28	VDU1046	♦VET	58- 65	VKX7799	♦VAR	15-108
VA175T	VAR	13- 36	VA297V	VAR	19- 54	VA891A	VAR	25- 60	VDX1001A	♦VET	58- 10	VLL1000	♦VET	57- 76
VA177M	VAR	13- 45	VA297W	VAR	20- 50	VA892A	VAR	25- 98	VDX1006	♦VET	58- 12	VLU1000	♦VET	58- 58
VA178M	VAR	13- 63	VA297X	VAR	20- 68	VA896	VAR	26- 92	VDX1025	♦VET	58- 14	VLU1002	♦VET	58- 59
VA183G	VAR	12- 81	VA297Y	VAR	20- 69	VA903	VAR	26- 83	VDX1036	♦VET	58- 11	VLX1001	♦VET	58- 17
VA183GA	VAR	12- 82	VA297Z	VAR	20- 91	VA908	VAR	27- 62	VDX1047	♦VET	58- 33	VLX1004	♦VET	58- 6
VA184F	VAR	12- 86	VA302	VAR	22- 71	VA909	VAR	26- 90	VDX1051	♦VET	58- 15	VLX1006	♦VET	58- 7
VA184M	VAR	12- 88	VA303	VAR	22- 48	VA911	VAR	27-110	VDX1052	♦VET	58- 9	VLX1009	♦VET	58- 18
VA184T	VAR	12- 90	VA308	VAR	21-105	VA913A	VAR	24- 37	VDX1071	♦VET	58- 48	VMA1043	♦VET	38- 47
VA185F	VAR	13- 8	VA309	VAR	21-106	VA914	VAR	27- 87	VDX1085	♦VET	58- 13	VMC1005	VET	37- 37
VA185M	VAR	13- 9	VA310	VAR	21- 54	VA914B	VAR	27- 84	VDX1086	♦VET	58- 8	VMS1056	♦VET	37- 25
VA187M	VAR	12- 98	VA311	VAR	21- 96	VA915A	VAR	24- 33	VF10	♦FERS	34- 22	VMU1000	♦VET	38- 22
VA201B	VAR	19- 68	VA312	VAR	22- 44	VA917B	VAR	26- 4	VF11	♦FERS	34- 23	VMU1018	VET	36- 49
VA203B	NECJ	19- 69	VA313	VAR	22- 47	VA920A	VAR	26- 2	VF20	♦FERS	36- 89	VMU1021	♦VET	36- 92
VA203B/6975	VARC	19- 70	VA318	VAR	20- 16	VA920B	♦VAR	26- 1	VF25	♦FERS	36- 88	VMU1032	♦VET	36- 83
VA203C,G,H,J	VARC	19- 62	VA322	VAR	22- 46	VA921	VAR	28- 2	VF30	♦FERS	32- 29	VMU1102	♦VET	38- 27
VA203H	NECJ	20- 24	VA326	VAR	18- 28	VA922	VAR	27-109	VF55	♦FERS	37- 6	VMX1003	♦VET	34- 19
VA203K	VARC	20- 82	VA327	VAR	16- 88	VA925	VAR	27- 95	VFS9500	♦VET	57- 85	VMX1004	♦VET	37-105
VA203L	VAR	20- 22	VA329	VAR	21- 90	VA925B	♦VAR	27- 93	VFS9503	♦VET	57- 86	VMX1024	♦VET	34- 62
	VARC		VA435M	VAR	12- 89	VA925C	VAR	27- 97	VFS9505	♦VET	57- 93	VMX1025	♦VET	37- 91
VA210B	VAR	20- 79	VA436M	VAR	12- 96	VA925E	EMIB	27- 94	VFS9506	♦VET	57- 87	VMX1026	VET	37- 85
VA210M	VAR	20- 83	VA440M	VAR	13- 1	VA926	VAR	16- 10	VFS9507	♦VET	57- 95	VMX1027	♦VET	37- 89
VA215H	VAR	18-109	VA440N	VAR	12-105	VA927	VAR	27-103	VFU9500	♦VET	58- 64	VMX1028	♦VET	33-105
VA217C	VAR	19- 71	VA441F	VAR	13- 2	VA928A	VAR	28- 4	VFU9502	♦VET	58- 57	VMX1031	VET	35-109
VA218	VARC	20- 95	VA441M	VAR	13- 6	VA930	VAR	26- 96	VFX9500	♦VET	58- 55	VMX1058	VET	37- 95
VA218B	VAR	20- 96	VA450C	VAR	13- 31	VA932	VAR	27-108	VFX9503	♦VET	58- 49	VMX1077	VET	33- 23
	VARC		VA450M	VAR	13- 21	VA932B	VAR	27-107	VFX9506	♦VET	58- 50	VMX1090	♦VET	37- 81
VA220A	VAR	18- 89	VA450N	VAR	13- 17	VA934	VAR	28- 3	VFX9507	♦VET	57- 97	VRB2111A	♦VARC	23- 36
VA220B	VAR	18- 49	VA451M	VAR	13- 29	VA935	VAR	26- 95	VKA7010	♦VAR	24- 88	VRB2112A1	♦VARC	23- 17
JANVA220B	VAR	18- 50	VA451N	VAR	13- 14	VA936A	VAR	27- 71	VKB2415A	♦VARC	23- 38	VRB2112A2	VARC	23- 21
VA220C	VAR	18- 33	VA460M	VAR	13- 32	VA936B	♦VAR	27- 70	VKB2415B	♦VARC	23- 39	VRB2112A3	♦VARC	23- 22
VA220D	VAR	18- 4	VA460N	VAR	13- 18	VA936E	♦VAR	27- 68	VKB2415C	♦VARC	23- 37	VRB2112A4	♦VARC	23- 23
VA220E	VAR	17- 68	VA461M	VAR	13- 40	VA936G	VAR	27- 69	VKB2415E	♦VARC	16- 37	VRB2112A5	♦VARC	23- 27
VA220F	VAR	17- 49	VA461N	VAR	13- 15	VA936J	VAR	27- 66	VKB2415F	♦VARC	16- 38	VRB2112A6	♦VARC	23- 30
VA220G	VAR	17- 85	VA462N	VAR	13- 16	VA936K	VAR	27- 67	VKB2415G	♦VARC	16- 35	VRB2112A7	♦VARC	23- 31
VA220J	VAR	17- 26	VA470M	VAR	13- 52	VA936N	VAR	27- 65	VKB2415H	♦VARC	16- 36	VRB2112A8	♦VARC	23- 35
VA220Z	VAR	18-106	VA470N	VAR	13- 58	VA938A	VAR	27- 59	VKC2403A1	VARC	26- 49	VRB2112A9	♦VARC	23- 40
VA221B	VAR	18- 62	VA472M	VAR	13- 44	VA938C	VAR	15- 53	VKC2403A2	VARC	26- 51	VRB2112A10	♦VARC	23- 41
VA221C	VAR	18- 46	VA480M	VAR	13- 64	VA943A	♦VAR	27- 2	VKC2403A3	VARC	26- 59	VRB2112A11	♦VARC	23- 47
VA221D	VAR	18- 24	VA482M	VAR	13- 62	VA943B	♦EMIB	27- 1	VKC2403A4	VARC	26- 61	VRB2112A12	♦VARC	23- 48
VA221E	VAR	17- 78	VA490M	VAR	13- 69	VA944A	♦VAR	27- 16	VKC2403A5	VARC	26- 63	VRB2112A13	♦VARC	23- 50
VA221F	VAR	17- 53	VA490N	VAR	13- 76	VA944B	♦EMIB	27- 15	VKC2403A6	VARC	26- 67	VRB2112A14	♦VARC	23- 54
VA221G	VAR	17-103	VA503B	VAR	24- 71	VA945A	♦VAR	27- 21	VKC2403A7	VARC	26- 70	VRB2112A15	♦VARC	23- 55
VA221H	VAR	17- 29	VA503C	VAR	24- 67	VA945B	♦EMIB	27- 20	VKC2403A8	VARC	26- 72	VRB2113A1	♦VARC	23- 19
VA222A	VAR	18- 83	VA504B	NECJ	24- 70	VA946A	♦EMIB	26-102	VKC2403A9	VARC	26- 75	VRB2113A2	♦VARC	23- 25
VA222B8821	♦VAR	18- 56		VAR			♦STCB		VKC2403A10	VARC	26- 78	VRB2113A3	♦VARC	23- 33
VA222C	VAR	18- 34	VA506	NECJ	24- 69	VA946A/B	VAR	26-103	VKC2404A1	VARC	26- 50	VRB2113A4	♦VARC	23- 45
VA222D	VAR	18- 5	VA508	VAR	24- 40	VA946H	♦VAR	26-104	VKC2404A2	VARC	26- 52	VRB2113A5	♦VARC	23- 52
VA222E	VAR	17- 69	VA510B	VAR	16- 13	VA947A	♦EMIB	27- 7	VKC2404A3	VARC	26- 60	VRB2113B1	♦VARC	23- 20
VA222F	VAR	17- 50	VA510D	VAR	24- 68		♦STCB		VKC2404A4	VARC	26- 62	VRB2113B2	♦VARC	23- 26
VA222G	VAR	17- 80	VA513	VAR	24- 79	VA947A/B	VAR	27- 8	VKC2404A5	VARC	26- 64	VRB2113B3	♦VARC	23- 34
VA222Z	VAR	18-107	VA514	VAR	24- 54	VA947C	♦VAR	27- 10	VKC2404A6	VARC	26- 68	VRB2113B4	♦VARC	23- 46
VA225	VAR	18- 97	VA515B	VAR	24- 72	VA947H	♦VAR	27- 9	VKC2404A7	VARC	26- 71	VRB2113B5	♦VARC	23- 53
VA232	VAR	20- 52	VA516	VAR	24- 61	VA948A	♦EMIB	27- 22	VKC2404A8	VARC	26- 73	VRB2115A1	♦VARC	23- 18
VA237A	VAR	21- 48	VA517	VAR	24- 60		♦STCB		VKC2404A9	VARC	26- 76	VRB2115A2	♦VARC	23- 24
VA237B	VAR	21- 21	VA518	VAR	24- 55	VA948A/B	VAR	27- 23	VKC2404A10	VARC	26- 77	VRB2115A3	♦VARC	23- 32
VA237C	VAR	21- 68	VA519	VAR	24- 56	VA948C	♦VAR	27- 27	VKC2404A11	VARC	26- 80	VRB2115A4	♦VARC	23- 44
VA237D	VAR	21- 43	VA520	VAR	24- 57	VA948H	♦VAR	27- 19	VKC7777	VAR	27- 64	VRB2115A5	♦VARC	23- 51
VA237E	VAR	21- 14	VA521	VAR	24- 38	VA949BM	VAR	27- 83	VKC8342/8956	♦VAR	15-100	VRE2101A	♦VARC	22-103
VA237F	VAR	21- 66	VA523	VAR	24- 51	VA950A	♦EMIB	26-105	VKE2401A1	VARC	16- 25	VRE2102A1	♦VARC	22- 81
VA240	VAR	21- 87	VA531	VAR	24- 83		♦STCB		VKE2401A2	VARC	16- 24	VRE2102A2	VARC	22- 85
VA240C	VAR	21- 67	VA531A	VAR	24- 84	VA950A/B	♦VAR	26-106	VKE2401A3	VARC	16- 34	VRE2102A3	♦VARC	22- 88
VA241	VAR	22- 24	VA532	VAR	24- 80	VA951A	♦EMIB	27- 11	VKE2401A	♦VARC	16- 32	VRE2102A4	♦VARC	22- 89
VA242	VAR	20- 67	VA533	VAR	24- 73	♦STCB	♦VAR		VKE2401B	♦VARC	16- 33	VRE2102A5	♦VARC	22- 93
	VARC		VA534	VAR	24- 89	VA952A	♦EMIB	27- 24	VKE2401C	♦VARC	16- 26	VRE2102A6	♦VARC	22- 96
VA244	♦VAR	17- 79	VA535	VAR	24- 90	♦STCB	♦VAR		VKE2401D	♦VARC	16- 27	VRE2102A7	♦VARC	22- 99
VA244K	♦VAR	17- 38	VA536	VAR	24- 65	VA953A/B	♦EMIB	26-108	VKE2401E	VARC	16- 28	VRE2102A8	♦VARC	22-102
VA246	VAR	21- 69	VA537	VAR	24- 82	VA953A/B/G	VAR	26-109	VKE2401F	VARC	16- 29	VRE2102A9	♦VARC	22-104
	VARC		VA620A	VAR	51- 35	VA954A/B	♦EMIB	27- 13	VKE2401G	♦VARC	16- 30	VRE2102A10	♦VARC	22-108
VA249	VAR	20- 58	VA625L	VAR	42- 75	VA954A/B/G	VAR	27- 14	VKE2401H	♦VARC	16- 31	VRE2102A11	♦VARC	23- 5

△-Registered with JEDEC
by this manufacturer

♦-Copy of mfr's data sheet
may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
VRE2102A12	♦VARC	23- 8
VRE2102A13	♦VARC	23- 9
VRE2102A14	♦VARC	23- 13
VRE2102A15	♦VARC	23- 14
VRE2102A16	♦VARC	23- 2
VRE2103A1	♦VARC	22- 83
VRE2103A2	♦VARC	22- 92
VRE2103A3	♦VARC	22-101
VRE2103A4	♦VARC	23- 4
VRE2103A5	♦VARC	23- 11
VRE2103A6	♦VARC	23- 1
VRE2103B1	♦VARC	22- 84
VRE2103B2	♦VARC	22- 91
VRE2103B3	♦VARC	22- 98
VRE2103B4	♦VARC	22-106
VRE2103B5	♦VARC	23- 7
VRE2103B6	♦VARC	23- 12
VRE2105A1	♦VARC	22- 82
VRE2105A2	♦VARC	22- 90
VRE2105A3	♦VARC	22- 97
VRE2105A4	♦VARC	22-105
VRE2105A5	♦VARC	22-109
VRE2105A6	♦VARC	23- 6
VRE2105A7	♦VARC	23- 10
VRJ7203A	♦VAR	17- 56
VRK7212	VAR	22- 29
VRQ2100A1	♦VARC	22- 70
VRT2121A1	♦VARC	23- 56
VRT2121A2	♦VARC	23- 57
VRT2121A3	♦VARC	23- 62
VRT2121A4	♦VARC	23- 63
VRT2121A5	♦VARC	23- 64
VRT2121A6	♦VARC	23- 65
VRT2121A7	♦VARC	23- 69
VRT2121A8	♦VARC	23- 71
VRT2121A9	♦VARC	23- 75
VRT2121A10	♦VARC	23- 76
VRT2121A11	♦VARC	23- 80
VRT2121A12	♦VARC	23- 82
VRT2121A13	♦VARC	23- 83
VRT2121A14	♦VARC	23- 84
VRT2121A15	♦VARC	23- 89
VRT2121A16	♦VARC	23- 90
VRT2122A1	♦VARC	23- 91
VRT2122A2	♦VARC	23- 93
VRT2122A3	♦VARC	23- 96
VRT2122A4	♦VARC	23-100
VRT2122A5	♦VARC	23-102
VRT2122A6	♦VARC	23-105
VRT2122A7	♦VARC	23-107
VRT2122A8	♦VARC	24- 1
VRT2122A9	♦VARC	24- 3
VRT2122A10	♦VARC	24- 5
VRT2122A11	♦VARC	24- 7
VRT2122A12	♦VARC	24- 11
VRT2122A13	♦VARC	24- 13
VRT2122A14	♦VARC	24- 17
VRT2122A15	♦VARC	24- 19
VRT2122B1	♦VARC	23- 92
VRT2122B2	♦VARC	23- 94
VRT2122B3	♦VARC	23- 97
VRT2122B4	♦VARC	23-101
VRT2122B5	♦VARC	23-103
VRT2122B6	♦VARC	23-106
VRT2122B7	♦VARC	23-108
VRT2122B8	♦VARC	24- 2
VRT2122B9	♦VARC	24- 4
VRT2122B10	♦VARC	24- 6
VRT2122B11	♦VARC	24- 8
VRT2122B12	♦VARC	24- 12
VRT2122B13	♦VARC	24- 14
VRT2122B14	♦VARC	24- 18
VRT2122B15	♦VARC	24- 20
VRT2123A1	♦VARC	23- 59
VRT2123A2	♦VARC	23- 67
VRT2123A3	♦VARC	23- 78
VRT2123A4	♦VARC	23- 86
VRT2123B1	♦VARC	23- 60
VRT2123B2	♦VARC	23- 68
VRT2123B3	♦VARC	23- 79
VRT2123B4	♦VARC	23- 87
VRT2124A1	♦VARC	23- 98
VRT2124A2	♦VARC	23-109
VRT2124A3	♦VARC	24- 9
VRT2124A4	♦VARC	24- 15
VRT2124B1	♦VARC	23- 99
VRT2124B2	♦VARC	23-110
VRT2124B3	♦VARC	24- 10
VRT2124B4	♦VARC	24- 16
VRT2125A1	♦VARC	23- 58
VRT2125A2	♦VARC	23- 66
VRT2125A3	♦VARC	23- 77
VRT2125A4	♦VARC	23- 85
VRT2411A	♦VARC	23- 73
VRT2411B	♦VARC	23- 74
VRT2411C	♦VARC	23- 72
VRU7208	VAR	21- 93
VRX2200A1	♦VARC	20- 64
VRX7204A	♦VAR	21- 11
VRX7204B	♦VAR	21- 18
VRX7207	VAR	20- 81
VRY2131A	♦VARC	24- 21
VTC4360P1	♦VAR	44- 56
VTC4360P2	♦VAR	44- 57
VTC4361H1	VAR	44- 65
VTC4402P1	VAR	44- 38
VTC4402P2	VAR	44- 28
VTC4414A4	VAR	45- 33
VTC4414P1	♦VAR	44- 51
VTC4414P2	♦VAR	44- 55
VTC4414P3	♦VAR	43-109
VTC4414S2	VAR	43- 57
VTC4414S6	VAR	46- 4
VTC4451H1	VAR	44- 30
VTC4460P1	VAR	43- 74
VTC4460P7	VAR	43-108
VTC4461P1	VAR	44- 31
VTC4461P6	VAR	45-104
VTC5160A1	VAR	43- 94
VTC5161A1	VAR	45- 20
VTC5170A1	VAR	45- 21
VTC5260H1	VAR	44- 15
VTC5261H1	VAR	44- 9
VTC5261J1	♦VAR	44- 10
VTC5262A1	♦VAR	44- 17
VTC5262B1	VAR	44- 16
VTC5264A2	♦VAR	43- 99
VTC5360A1	VAR	44- 11
VTC5360A2	VAR	43- 87
VTC5360H1	♦VAR	43- 88
VTC5361A1	VAR	44- 13
VTC5660A1	VAR	44- 23
VTC5760A1	VAR	43-102
VTC6060A1	VAR	44- 74
VTC6060H1	♦VAR	44- 82
VTC6061B1	VAR	43- 58
VTC6069F1	VAR	44- 93
VTC6160A1	VAR	44-100
VTC6160B1	VAR	44-101
VTC6160H1	VAR	44-102
VTC6160J1	VAR	44-103
VTC6260A1	VAR	44-110
VTC6260C1	VAR	45- 1
VTC6260H1	VAR	45- 2
VTC6260H2	VAR	45-101
VTC6260J1	VAR	45- 3
VTC6264C6	VAR	45- 14
VTC6360A1	VAR	45- 42
VTC6360E1	VAR	45- 41
VTC6361A1	VAR	45- 80
VTC6362A1	VAR	45- 83
VTC6363A1	VAR	45-103
VTC6364A1	VAR	45- 81
VTC6660A1	VAR	45- 47
VTC6660C1	♦VAR	45- 92
VTG2605A1	VARC	43- 9
VTG2605C4	VARC	43- 10
VTG2625A1	VARC	42-107
VTG2627A1	VARC	43- 30
VTG2630A1	♦VARC	42- 79
VTG2630A5	VARC	43- 64
VTG4230P1	VAR	42- 93
VTG4320P1	VAR	42- 87
VTG4320P2	VAR	42- 88
VTG4321H1	VAR	42- 94
VTG4420P1	♦VAR	42- 89
VTG4421H1	VAR	42- 95
VTG5120A1	VAR	43- 34
VTG6020A1	VAR	40- 77
VTG6025A1	♦VAR	42-102
VTG6025A2	♦VAR	42-103
VTG6028A1	VAR	46- 9
VTG6230A1	VAR	43- 15
VTG6260A1	VAR	45- 4
VTH2601A1	VARC	48- 4
VTH2610A1	VARC	46- 68
VTH2610A2	♦VARC	47- 20
VTH4370H3	VAR	46- 53
VTH4371H1	VAR	46- 54
VTH4471H1	VAR	46- 52
VTH4471P1	VAR	47- 57
VTH6070A1	VAR	47- 42
VTH6070A2	♦VAR	47- 43
VTH6071A1	VAR	47- 52
VTH6074A2	VAR	47- 6
VTH6074B1	♦VAR	47- 47
VTH6074H2	VAR	47- 7
VTH6074J1	♦VAR	47- 48
VTH6077A1	VAR	46- 40
VTH6079A1	VAR	46- 41
VTH6170A1	VAR	47- 66
VTH6170B1	VAR	47- 67
VTH6170H1	VAR	47- 68
VTH6170J1	VAR	47- 69
VTH6270C1	♦VAR	48- 28
VTH6272A1	VAR	48- 39
VTJ2607A1	VARC	46- 7
VTJ2608A1	VARC	45- 70
VTJ2608A2	VARC	46- 21
VTJ2609A1	♦VARC	45- 67
VTJ2609A2	VARC	45- 72
VTJ2609A3	VARC	45- 73
VTJ2609A4	♦VARC	45- 61
VTJ2609A11	♦VARC	46- 25
VTJ2618A1	VARC	45- 64
VTJ2623A1	VARC	46- 29
VTJ2624A1	VARC	46- 22
VTJ2626A1	VARC	46- 18
VTJ2628A1	VARC	45- 50
VTJ2632A1	♦VARC	45- 75
VTJ6264C4	VAR	45-102
VTL5240H1	VAR	39- 68
VTL5241A1	VAR	39- 69
VTL5341H1	VAR	39- 70
VTL5341K1	VAR	39- 66
VTL5740A1	VAR	39- 50
VTL5741A1	VAR	39- 73
VTL6040H1	VAR	39- 87
VTL6140A1	VAR	39-107
VTL6140B1	VAR	39-108
VTL6140B2	♦VAR	40- 53
VTL6240A1	VAR	40- 4
VTL6240C1	VAR	40- 5
VTL6242C1	VAR	40- 10
VTL6640A1	VAR	40- 30
VTM2613A1	♦VARC	50- 86
VTM2615A1	VARC	50-103
VTM2616A1	VARC	50- 35
VTM4386A1	VAR	50- 52
VTM4386H1	VAR	50- 56
VTM4486H1	VAR	50- 50
VTP2619A1	VARC	39- 22
VTP2620A1	VARC	39- 25
VTP2621A1	VARC	39- 24
VTP5231B1	VAR	38-103
VTP6330A1	VAR	39- 16
VTP6331A1	VAR	39- 39
VTP6331A2	VAR	39- 41
VTP6332A1	VAR	38-106
VTP6333A1	VAR	39- 5
VTP6334A1	VAR	39- 27
VTS2600A1	VARC	40- 40
VTS2600A2	VARC	40- 37
VTS2602A1	♦VARC	40- 46
VTS2602B2	VARC	40- 43
VTS2603A1	♦VARC	40- 38
VTS2603B2	VARC	40- 56
VTS2604A1	♦VARC	40- 84
VTS4350P1	♦VAR	41- 23
VTS4350P3	♦VAR	41- 24
VTS4351H1	VAR	41- 32
VTS4407P1	VAR	40- 99
VTS4407P2	VAR	41- 5
VTS4407P3	VAR	40- 90
VTS4407P4	VAR	42- 53
VTS4407P6	VAR	41- 6
VTS4413H1	VAR	43- 21
VTS4413H2	VAR	43- 42
VTS4413H9	VAR	43- 41
VTS4413P1	VAR	41- 13
VTS4413P2	♦VAR	41- 31
VTS4413P3	♦VAR	40-100
VTS4413P5	VAR	41- 8
VTS4413P9	♦VAR	43- 40
VTS4450P2	VAR	40- 97
VTS4450P7	VAR	42- 50
VTS4451H1	VAR	40-109
VTS4451P1	VAR	40-110
VTS4451P2	VAR	42- 39
VTS5150A1	VAR	41- 88
VTS5152A1	VAR	42- 20
VTS5250A1	VAR	40-103
VTS5251A1	VAR	42- 38
VTS5252A1	VAR	40-105
VTS5252C2	♦VAR	42- 58
VTS5253A2	VAR	40-104
VTS5350A1	VAR	42- 37
VTS5351A1	VAR	40-106
VTS5352B1	♦VAR	40-101
VTS5352H1	VAR	40-102
VTS5353A1	VAR	42- 59
VTS5650A1	♦VAR	42- 43
VTS5651A1	VAR	42- 62
VTS5751A1	VAR	42- 61
VTS6050A2	VAR	41- 54
VTS6050H5	VAR	41- 57
VTS6055A1	♦VAR	41- 70
VTS6150A1	VAR	41- 75
VTS6150B1	VAR	41- 76
VTS6150H1	VAR	41- 77
VTS6150J1	VAR	41- 78
VTS6250A1	VAR	41- 89
VTS6250A3	VAR	41-101
VTS6250C1	VAR	41- 90
VTS6250H1	VAR	41- 91
VTS6250H2	VAR	40- 74
VTS6250J1	VAR	41- 92
VTS6252C1	VAR	41-102
VTU2614A1	♦VARC	51- 10
VTU4390H1	VAR	51- 2
VTU4390P1	VAR	51- 18
VTU4390P2	VAR	51- 19
VTU4390P3	VAR	51- 3
VTU4490H1	VAR	51- 20
VTU4490H5	VAR	51- 21
VTU4490P1	♦VAR	51- 23
VTU5390A1	VAR	51- 64
VTU5391A1	VAR	51- 68
VTU6090A1	♦VAR	51- 43
VTU6090H1	♦VAR	51- 44
VTU6091A1	♦VAR	51- 51
VTU6091H1	♦VAR	51- 52
VTU6190A1	VAR	51- 53
VTU6190H1	VAR	51- 54
VTU6290C1	VAR	51- 57
VTU6290C2	VAR	51- 60
VTU6390A1	♦VAR	51- 70
VTU6391A1	VAR	50-102
VTU6690A1	VAR	51- 69
VTX2612A1	♦VARC	50- 16
VTX2612B1	VARC	50- 19
VTX2622A1	VARC	50- 13
VTX4380P1	VAR	47- 96
VTX4380P2	VAR	47- 97
VTX4380P5	VAR	49- 39
VTX4380P6	VAR	49- 40
VTX4381H1	VAR	49- 48
VTX4403C4	VAR	46- 73
VTX4403J1	VAR	47- 22
VTX4403P9	VAR	48- 68
VTX4403S9	VAR	47- 74
VTX4412P1	VAR	47- 73
VTX4415H1	VAR	47-101
VTX4415P1	VAR	47- 86
VTX4415P2	VAR	49- 35
VTX4415P3	♦VAR	49- 44
VTX4415P4	♦VAR	48- 60
VTX4480P1	VAR	48- 58
VTX4481H1	VAR	49- 71
VTX4481P5	VAR	49- 70
VTX4481P6	VAR	50- 5
VTX5180A1	VAR	49- 68
VTX5380B1	VAR	48- 64
VTX5383A1	VAR	48-110
VTX5680A1	VAR	49- 23
VTX5780D1	VAR	48- 65
VTX5782A1	♦VAR	48- 87
VTX6081A1	VAR	48- 13
VTX6081B1	VAR	47- 24
VTX6084A1	♦VAR	49- 77
VTX6084H1	♦VAR	49- 78
VTX6089H2	♦VAR	48- 14
VTX6089H3	♦VAR	49- 88
VTX6180A1	VAR	49- 93
VTX6180B1	VAR	49- 94
VTX6180H1	VAR	49- 95
VTX6180J1	VAR	49- 96
VTX6181A	VAR	47- 26
VTX6181H1	VAR	50- 1
VTX6280C1	VAR	49-100
VTX6280J1	VAR	49-101
VTX6380A1	♦VAR	48- 70
VTX6383A1	♦VAR	50- 6
VTX6384	♦VAR	47- 40
VTX6384A1	VAR	47- 41
VTX6625	♦VAR	47- 37
VXC1060	♦VET	14- 69
VXS1059	♦VET	14- 47
VXX1062	♦VET	14- 85
VXX1063	♦VET	14- 92
VXX1064	♦VET	14-109
VYG2630A1	♦VARC	42- 80
VYH2610A2	♦VARC	47- 21
VYJ2609A1	♦VARC	45- 68
VYJ2609A4	♦VARC	45- 62
VYJ2609A11	♦VARC	46- 26
VYS2602A1	♦VARC	40- 47
VYS2603A1	♦VARC	40- 39
VYS2604A1	♦VARC	40- 85
VZC6060C1	VAR	44- 83
VZC6060D1	VAR	44- 84
VZC6061C1	VAR	43- 59
VZC6061D1	VAR	43- 60
VZC6960E2	VAR	44- 94
VZC6961E1	VAR	44-104
VZC6962E1	VAR	45- 5
VZC6963C1	VAR	43- 68
VZG6020C1	VAR	40- 78
VZG6020D1	VAR	40- 79
VZG6025C1	VAR	42-104
VZG6025D1	VAR	42-105
VZH6070C1	VAR	47- 44
VZH6070D1	VAR	47- 45
VZH6074C1	VAR	47- 49
VZH6074D1	VAR	47- 50
VZH6971E1	VAR	47- 70
VZL6040C1	VAR	39- 91
VZL6040D1	VAR	39- 92
VZL6941E1	VAR	39-109
VZL6942E1	VAR	40- 6
VZS6050C1	VAR	41- 55
VZS6050C2	VAR	41- 58
VZS6050D1	VAR	41- 56
VZS6050D2	VAR	41- 59
VZS6050E2	VAR	41- 71
VZS6951E1	VAR	41- 79
VZS6952E1	VAR	41- 93
VZU6090C1	VAR	51- 45
VZU6090D1	VAR	51- 46
VZU6990E1	VAR	51- 55
VZU6992C1	VAR	51- 58
VZU6992E1	VAR	51- 61
VZX6084C1	VAR	49- 79
VZX6084D1	VAR	49- 80
VZX6980E1	VAR	49- 89
VZX6980E3	VAR	48- 15
VZX6981E1	VAR	49- 97
VZX6981S3	VAR	46- 97
VZX6981S4	VAR	47- 25
VZX6982E1	VAR	49-102
W2MT1A	STCB	51- 25
W3-5G	♦STCB	50- 30
W3/2G	STCB	50- 41
W3MC-3B	♦STCB	50- 20
W3MC-3C	♦STCB	50- 21
W3MC-5A	♦STCB	50- 78
W3MC-6A	♦STCB	50- 99
W3MC/3A	♦STCB	50- 22
W3MQ/1D	STCB	48- 75
W3MQ/1F	STCB	48- 76
W3MT-4A	♦STCB	49- 19
W4/2G	STCB	46- 98
W5-2GF	♦STCB	46- 64
W5-4G	♦STCB	46- 1
W5/1G	STCB	46- 3
W5/2G	♦STCB	46- 2
W5/2GD	♦STCB	45- 32
W6ML/1C	STCB	43- 91
W6MT-2A	♦STCB	44- 25
W7-6GC	♦STCB	43- 54
W7-6GL	♦STCB	43- 82
W7-6GZ	♦STCB	43- 14
W7/2D	STCB	42-106
W7/3G	STCB	43- 3
W7/4G	STCB	43- 51
W7/5GA	STCB	43- 13
W7/5GB	STCB	43- 65
W7/5GC	STCB	43- 53
W7/6GA	♦STCB	43- 32
W9/2E	STCB	42- 54
W9/3E	STCB	42- 51
W10/3E	STCB	42- 40
W10/4G	STCB	42- 34
W10ML/6A	STCB	41- 29
W10MQ/5A	STCB	41- 2
W10PQ/5A	STCB	41- 3
W45B/5E	STCB	39- 26
W46D-2T	♦STCB	39- 2
W48D3T	♦STCB	39- 17
W48D-1T	♦STCB	39- 14
W421	NJRC	13- 13
W421A	NJRC	13- 19
WF21H	♦FERS	54- 85
WF22A	♦FERS	54- 99
WF22B	♦FERS	54-100
WF23A	♦FERS	54- 78
WF23B	♦FERS	54- 79
WF42	♦FERS	56- 55
WF43	♦FERS	55- 60
WF49A	♦FERS	55- 94
WF60	♦FERS	56- 90
WF61L	♦FERS	58- 70
WF70	♦FERS	55- 6
WF71	♦FERS	55- 31
WF402	♦FERS	55- 56
WF402L	♦FERS	57-108
WF404L	♦FERS	58- 29
WF407L	♦FERS	56- 20
WF409	♦FERS	56- 49
WF412L	♦FERS	58- 53
WJ228	♦WJC	44- 18
WJ268	WJC	39- 75
WJ269	WJC	41- 1
WJ269-58	WJC	43- 20
WJ271	WJC	44- 33
WJ271-2	WJC	44- 26
WJ276	WJC	49- 30
WJ276-2	WJC	47- 83
WJ278	WJC	39- 29
WJ280	WJC	40- 25
WJ281	WJC	42- 45
WJ286	WJC	44- 34
WJ287	WJC	49- 31
WJ294	WJC	39- 76
WJ294-5	WJC	39- 77
WJ295	WJC	41- 9
WJ295-5	WJC	41- 10
WJ296	WJC	44- 39
WJ296-5	WJC	44- 41
WJ297	WJC	49- 36
WJ297-2	WJC	47- 87
WJ307	WJC	51- 11
WJ307-24	WJC	50- 88
WJ328-1	WJC	39- 82
WJ329-1	WJC	41- 25
WJ331-1	WJC	44- 52
WJ332-1	WJC	49- 41
WJ338	♦WJC	51- 99
WJ340	WJC	40- 12
WJ342	WJC	51- 16
WJ343	WJC	43- 80
WJ345	WJC	49- 32
WJ345-11	WJC	48- 59
WJ346	WJC	43-101
WJ355	WJC	40- 64
WJ357	♦WJC	39- 43
WJ363	WJC	49- 45
WJ371	♦WJC	51- 24
WJ375-4	WJC	42- 67
WJ376	WJC	44- 35
WJ377	WJC	49- 33
WJ381	WJC	42- 83
WJ393	WJC	51- 92
WJ396	WJC	47- 82
WJ405	WJC	39- 78
WJ406	WJC	41- 11
WJ407	WJC	45- 25
WJ408	WJC	49- 37
WJ422	WJC	41- 26
WJ423	WJC	44- 53
WJ424	WJC	49- 43
WJ424-6	WJC	47- 98
WJ425	WJC	51- 22
WJ437	♦WJC	50- 89
WJ440-1	WJC	46- 65
WJ440-8	♦WJC	45- 44
WJ440-20	♦WJC	47- 30
WJ457	WJC	39- 79
WJ458	WJC	41- 12
WJ459	WJC	44- 42
WJ460	WJC	49- 38
WJ461	WJC	51- 17
WJ462	WJC	41- 27
WJ463	WJC	44- 54
WJ464	WJC	49- 42
WJ465-1	♦WJC	51- 30
WJ466	WJC	51- 90
WJ468-2	♦WJC	45- 17
WJ472	WJC	47- 55
WJ476	♦WJC	44- 66
WJ477	♦WJC	41- 33
WJ481	WJC	43- 22
WJ482	WJC	42- 90
WJ484	♦WJC	47-102
WJ485	♦WJC	44- 58
WJ486	♦WJC	41- 30
WJ494	♦WJC	45-105
WJ2001-50	♦WJC	13- 38
WJ2001-51	♦WJC	13- 24
WJ2003-50	♦WJC	13- 55
WJ2018-50	♦WJC	12- 93
WJ2018-51	♦WJC	12- 94
WJ2019-50	♦WJC	13- 10
WJ2019-51	♦WJC	13- 11
WJ2020-50	♦WJC	13- 25
WJ2020-51	♦WJC	13- 26
WJ2038-50	♦WJC	12- 97
WJ2039-50	♦WJC	13- 37
WJ2039-51	♦WJC	13- 23
WJ2049-50	♦WJC	12-101

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
WJ2056-50	♦WJC	13 - 56
WJ2057-50	♦WJC	13 - 67
WJ2058-50	♦WJC	13 - 73
WJ2060-50	♦WJC	13 - 57
WJ2061-50	♦WJC	13 - 68
WJ2062-50	♦WJC	13 - 74
WJ3003	♦WJC	41 - 34
WJ3004	♦WJC	44 - 67
WJ3005	♦WJC	49 - 49
WJ3006	♦WJC	51 - 26
WJ3033	♦WJC	46 -107
WJ3500	♦WJC	39 - 88
WJ3501	♦WJC	41 - 47
WJ3502	♦WJC	44 - 75
WJ3503	♦WJC	49 - 75
WJ3504	♦WJC	50 - 60
WJ3505	♦WJC	51 - 39
WJ3506	♦WJC	42 -100
WJ3507	♦WJC	46 -102
WJ3613-1	♦WJC	41 -104
WJ3613-2	♦WJC	41 -105
WJ3614-1	♦WJC	45 - 16
WJ3614-2	♦WJC	44 - 32
WJ3632	♦WJC	38 - 98
WJ3632-1	♦WJC	39 - 51
WJ3632-2	♦WJC	39 - 52
WJ3633-1	♦WJC	43 - 16
WJ3633-2	♦WJC	43 - 17
WJ3633#1	♦WJC	43 - 18
WJ3633#2	♦WJC	43 - 19
WJ3634-1	♦WJC	46 - 57
WJ3634-2	♦WJC	46 - 58
WJ3634#1	♦WJC	46 - 56
WJ3634#2	♦WJC	46 - 59
WJ3635	♦WJC	43 - 83
WJ3800	♦WJC	41 - 60
WJ3801	♦WJC	42 -109
WJ3802	♦WJC	44 - 86
WJ3803	♦WJC	46 -103
WJ3804	♦WJC	48 - 2
WJ3805	♦WJC	49 - 81
WJ3806	♦WJC	50 - 63
WJ3807	♦WJC	51 - 28
WJ3850	♦WJC	41 - 80
WJ3851	♦WJC	41 - 83
WJ3852	♦WJC	41 - 94
WJ3853	♦WJC	41 - 95
WJ3860	♦WJC	44 -105
WJ3861	♦WJC	44 -106
WJ3862	♦WJC	45 - 6
WJ3863	♦WJC	45 - 7
X12	VAR	21 - 94
X13	♦THC	20 - 85
VAR	VARC	
	VET	
X13B	♦THC	20 - 1
VAR	VARC	
X13C	VAR	19 - 20
X26	VAR	17 - 76
X602K	VAR	25 - 22
X780	VAR	26 - 9
X841D	VAR	28 - 5
X3002	VAR	25 - 2
X3002A	VAR	24 -110
X3030	VAR	26 - 84
X3033	VAR	28 - 17
X3066	VAR	28 - 18
X3068	VAR	27 - 32
X3070	VAR	28 - 16
X3075	VAR	28 - 15
X3076	VAR	28 - 6
YH1000	♦ALGG	40 - 45
YH1010	SIEG	39 - 10
YH1011	SIEG	38 -107
YH1012	SIEG	39 - 12
YH1014	SIEG	39 - 44
YH1020	SIEG	39 - 9
YH1041	SIEG	45 - 84
YH1043	SIEG	45 - 82
YH1044	SIEG	45 - 88
YH1045	SIEG	45 - 85
YH1050	♦ALGG	43 - 61
YH1090	♦MULB	42 - 76
YH1120	♦ALGG	46 - 50
YH1131	♦ALGG	50 - 79
YH1150	♦ALGG	40 - 52
YH1160	♦ALGG	43 - 5
YH1170	♦MULB	46 - 51
YH1172	MULB	46 -101
YH1181	♦ALGG	43 - 70
YH1190	♦ALGG	50 - 81
YH1191	♦ALGG	50 - 24
YH1192A	♦ALGG	50 - 80
YH1192B	♦ALGG	50 - 77
YH1193	ALGG	50 - 36
YH1200	♦ALGG	45 -106
YH1202	♦ALGG	45 - 30
YH1203	♦ALGG	46 - 27
YH1210	♦MULB	39 - 11
YJ1060	APX	35 - 6
YJ1071	APX	35 - 64
YJ1110	APX	35 - 7
YJ1120	APX	35 - 71
	♦EMIB	
YJ1121	APX	35 - 88
	♦EMIB	
YJ1150	APX	29 - 19
YJ1160	♦APX	30 - 18
YJ1162	♦APX	30 - 19
YJ1191	♦APX	30 - 26
YJ1200	APX	35 - 21
YJ1210	♦ALGG	37 - 41
YJ1230	♦ALGG	29 - 18
YJ1250	APX	34 - 70
YJ1280	APX	30 - 9
YJ1300	APX	35 - 59
YJ1390	APX	35 - 53
YJ1400	♦ALGG	38 - 31
YJ1420	APX	29 -110
YJ1440	APX	30 - 20
YJ1460	♦ALGG	38 - 1
YJ1461	ALGG	35 -107
YJ1480	APX	30 - 10
YJ1490	APX	30 - 7
YK1001	APX	25 - 58
YK1002	APX	25 - 57
YK1010	APX	18 - 32
	♦RTCF	
YK1020	♦ALGG	18 -101
YK1021	♦ALGG	18 - 30
YK1023	♦ALGG	18 -102
YK1030	♦ALGG	17 -104
YK1050	♦ALGG	18 - 93
YK1081	♦ALGG	20 - 55
YK1082	♦ALGG	20 - 37
YK1100	♦ALGG	18 - 82
YK1110	MULB	25 - 6
YK1120	♦ALGG	24 - 77
YK1151	APX	25 - 81
	MULB	
YK1190	MULB	25 - 50
YK1191	MULB	25 - 63
YK1192	MULB	25 - 95
YK1210	MULB	16 - 12
Z150/35Z	STCB	25 - 38
Z151/50Z	STCB	25 - 40
Z152-50Z	♦STCB	25 - 33
Z153-50Z	♦STCB	25 - 32
Z154-70Q	♦STCB	25 - 42
Z154-150Q	♦STCB	25 - 53
Z155/150Z	STCB	25 - 46
Z159-210Z	♦STCB	26 -107
Z160/35Z	STCB	25 - 78
Z161/50Z	STCB	25 - 79
Z162-50Z	♦STCB	25 - 69
Z163-50Z	♦STCB	25 - 64
Z166/150Z	STCB	25 - 80
Z169-210Z	♦STCB	27 - 12
Z170/35Z	STCB	25 - 87
Z171/50Z	ITT	25 - 89
	STCB	
Z172-50Z	♦STCB	25 - 90
Z173-50Z	♦STCB	25 - 97
Z178/150Z	ITT	27 - 25
Z179-210Z	♦STCB	27 - 26
Z188/150Z	ITT	25 -107
	STCB	
Z211/1G	ITT	24 - 99
	STCB	
Z237-1KW	ITT	16 - 90
	♦STCB	
Z239/1G	ITT	16 - 98
	STCB	
ZM6231	♦GESY	29 - 30
ZM6265A	♦GESY	31 - 13
ZM6276	♦GESY	30 - 96
ZM6277	♦GESY	31 - 81

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1▼#	LD4171	1300M	4.5	12.700G-13.300G	CW	21 §Ø		41					WA	11.02
2▼#	LD4130	6775M	6.8	6.425G-7.125G	CW	28 §Ø		40					CO	7.716
3▼	7988	10300M		8.200G-12.400G		205	175m		17.9		NS		WA	
4▼#	LD4157	10600M	6.5	10.500G-10.700G	CW	21 §Ø		43					WA	11.02
5▼#	LD4187	10600M	6.5	10.500G-10.700G	CW	21 §Ø		43					WA	11.02
6▼#	LD4131	13000M	4.5	12.700G-13.300G	CW	21 §Ø		36					WA	11.02
7▼	6684	15200M		12.400G-18.000G		67	200m		15.8		NS		WA	
8▼	TN170	22250M		18.000G-26.500G		170	120		15		NS		WA	
9▼	TN162	33250M		26.500G-40.000G		170	120		15.4		NS		WA	
10▼	TN172	41500M		33.000G-50.000G		170	120		15.4		NS		WA	
11▼	TN163	50000M		40.000G-60.000G		170	120		15.4		NS		WA	
12▼	TN164	62500M		50.000G-75.000G		170	120		15		NS		WA	
13▼	TN171	75000M		60.000G-90.000G		210	100		15		NS		WA	
14▼	TN165	92500M		75.00G-110.00G		225	75		14.2		NS		WA	
15▼	TN167	115000M		90.00G-140.00G		225	75		13		NS		WA	
16▼	TN166	140000M		110.00G-170.00G		225	75		12		NS		WA	
17▼	TN173	180000M		140.00G-220.00G		225	75		9.0		NS		WA	
18♦#	CMA1231	595M	250 †	520M-670M		5.0k	375mØ			BWM	OS		WA	49.60
19▼#	F4036	595M	250 †	520M-670M		5000	375mØ			BWM	OS		WA	49.60
20♦#	CMA1232	760M	250 †	660M-860M		5.0k	375mØ			BWM	OS		WA	47.39
21▼#	F4039	760M	250 †	660M-860M		5000	375mØ			BWM	OS		WA	47.39
22♦#	CMA1241	930M	750 †	800M-1.060G		6.0k	600mØ			BWM	OS		WA	30.86
23▼#	F4182	930M	750 †	800M-1.060G		6.0k	600mØ			BWM	OS		WA	30.86
24♦#	CMA1233	975M	250 †	850M-1.100G		5.0k	350mØ			BWM	OS		WA	37.47
25▼#	F4040	975M	250 †	850M-1.100G		5.0k	350mØ			BWM	OS		WA	37.47
26♦	L3721	1200M	200 †	1.000G - 1.400G	CW	5200	.50			BWM*#	OS	VT	WA	27 △
27♦	QKA1250	1200M	200	1.000G-1.400G	CW	4.0k	300m			BWM	OS	VT	CO	28
28♦#	CMA1242	1215M	750 †	1.060G-1.370G		6.0k	600mØ			BWM	OS		WA	29.76
29▼#	F4027	1215M	750 †	1.060G-1.370G		6.0k	600mØ			BWM	OS		WA	29.76
30♦#	CMA1234	1225M	250 †	1.080G-1.370G		5.0k	350mØ			BWM	OS		WA	28.65
31▼#	F4041	1225M	250 †	1.080G-1.370G		5000	350mØ			BWM	OS		WA	28.65
32♦#	CMA1243	1520M	750 †	1.340G-1.700G		6.0k	600mØ			BWM	OS		WA	22.04
33▼#	F4116	1520M	750 †	1.340G-1.700G		6.0k	600mØ			BWM	OS		WA	22.04
34♦#	CMA1244	1875M	750 †	1.650G-2.100G		6.0k	600mØ			BWM	OS		WA	22.04
35▼#	F4117	1875M	750 †	1.650G-2.100G		6000	600mØ			BWM	OS		WA	22.04
36♦	QKA1252	2025M	200k	1.80G-2.55G	CW	4000	300m			BWM	OS	VT	CO	28
37♦#	CMA1245	2350M	600 †	2.050G-2.650G		6.0k	600mØ			BWM	OS		WA	19.84
38▼#	F4118	2350M	600 †	2.050G-2.650G		6.0k	600mØ			BWM	OS		WA	19.84
39♦#	CMA1251	2375M	250 †	2.100G-2.650G		5.0k	350mØ			BWM	OS		WA	7.71
40▼#	F4035	2375M	250 †	2.100G-2.650G		5.0k	350mØ			BWM	OS		WA	7.71
41♦#	BWS1	2800M	150 †	2.500G - 3.100G*	CW	5100	.35			BWM†	OS	VT	CO	42
42♦#	CMA1252	3000M	200 †	2.600G-3.400G		5.0k	350mØ			BWM	OS		WA	7.71
43▼#	F4043	3000M	200 †	2.600G-3.400G		5.0k	350mØ			BWM	OS		WA	7.71
44♦#	CMA1246	3000M	500 †	2.600G-3.400G		6.0k	600mØ			BWM	OS		WA	17.63
45▼#	F4038	3000M	500 †	2.600G-3.400G		6.0k	600mØ			BWM	OS		WA	17.63
46♦	L3724	3025M	180 †	2.500G - 3.550G	CW	5200	.35			BWM*#	OS	VT	WA	16 △
47♦	QKA1253	3025M	180	2.500G-3.550G	CW	4.0k	300m			BWM	OS	VT	CO	26
48♦	L3724A	3025M	235 †	2.500G - 3.550G	CW	5200	.35			BWM*#	OS	VT	WA	16 △
49♦	L5316	3.050G	100	2.600G-3.500G	CW	3.440k	210m			BWM	OS	VT	CO	7.0
50♦#	BWS2	3500M	150 †	3.000G - 4.000G*	CW	5100	.35 Ø			BWM*†	OS	VT	CO	42
51♦#	CMA1253	3600M	200 †	3.200G-4.000G		5.0k	350mØ			BWM	OS		WA	7.71
52▼#	F4044	3600M	200 †	3.200G-4.000G		5000	350mØ			BWM	OS		WA	7.71
53♦#	CMA1247	3650M	500 †	3.200G-4.100G		6.0k	600mØ			BWM	OS		WA	18.73
54▼#	F4119	3650M	500 †	3.200G-4.100G		6000	600mØ			BWM	OS		WA	18.73
55♦#	CMA1254	4500M	200 †	3.900G-4.900G		5.0k	300mØ			BWM	OS		WA	7.71
56▼#	F4019	4500M	200 †	3.900G-4.900G		5.0k	300mØ			BWM	OS		WA	7.71
57♦	L3729A	5135M	220 †	4.360G - 5.910G	CW	5200	.35			BWM*#	OS	VT	WA	16.5 △
58♦#	CMA1255	5400M	150 †	4.800G-6.000G		5.0k	300mØ			BWM	OS		WA	5.51
59▼#	F4045	5400M	150 †	4.800G-6.000G		5.0k	300mØ			BWM	OS		WA	5.51
60♦	L5317	5.450G	100	4.700G-6.200G	CW	3.440k	210m			BWM	OS	VT	CO	7.0
61♦	L3726	5675M	165 †	4.800G - 6.550G	CW	5200	.35			BWM*#	OS	VT	WA	16.5 △
62♦#	CMA1256	6600M	150 †	5.900G-7.300G		5.0k	300mØ			BWM	OS		WA	5.51
63▼#	F4020	6600M	150 †	5.900G-7.300G		5000	300mØ			BWM	OS		WA	5.51
64♦#	CMA1257	7950M	150 †	7.200G-8.700G		5.0k	300mØ			BWM	OS		WA	5.51
65▼#	F4021	7950M	150 †	7.200G-8.700G		5.0k	300mØ			BWM	OS		WA	5.51
66♦#	BWX5	8950M	100 †	7.500G - 10.40G	CW	5000	.375			BWM†	OS	VT	WA	20 △
67♦	L5318	9.000G	100	8.500G-9.500G	CW	2.675k	180m			BWM	OS	VT	CO	7.0
68♦	QKA1782	9000M	400	8.00G-10.00G	1.0	8000	500m			BWM	OS	VT	WA	35
69♦	L3234	9050M	125 †	8.500G - 9.600G	CW	4000	.30			BWM*#	OS	VT	WA	16 △
70♦#	CMA1258	9250M	150 †	8.000G-10.500G		5.0k	300mØ			BWM	OS		WA	5.51
71▼#	F4085	9250M	150 †	8.000G-10.500G		5.0k	300mØ			BWM	OS		WA	5.51
72♦	QKA1257	9600M	150	8.00G-10.20G	CW	5200	275m			BWM	OS	VT	WA	20
73♦	L3728	9750M	125 †	8.500G - 11.00G	CW	5200	.30			BWM*#	OS	VT	WA	16 △
74♦	QKA773A	9750M	150	8.500G-11.000G	CW	5.2k	275m			BWM	OS	VT	WA	
75♦#	CMA1259	11450M	100 †	10.400G-12.500G		5.0k	300mØ			BWM	OS		WA	5.51
76▼#	F4022	11450M	100 †	10.400G-12.500G		5000	300mØ			BWM	OS		WA	5.51
77♦#	CMA1260	13550M	80 †	12.300G-14.800G		5.0k	300mØ			BWM	OS		WA	7.93
78▼#	F4051	13550M	80 †	12.300G-14.800G		5000	300mØ			BWM	OS		WA	7.93
79♦#	CMA1261	16000M	60 †	14.500G-17.500G		5.0k	300mØ			BWM	OS		WA	7.93
80▼#	F4052	16000M	60 †	14.500G-17.500G		5.0k	300mØ			BWM	OS		WA	7.93
81	VA183G	1500M	.05 †	1.000G - 2.000G	CW	1250	.039			BWT*†	OS	VT	CO	10
82	VA183GA	1500M	100m	1.000G-2.000G		100	10m			BWT	OS	VT	CO	16
83	SE214A50	1500M	450m	1.00G-2.00G	CW	1537	17m			BWT†*	OS	VT	CO	14.5 △
84▼	SE214-50	1800M	25m†	1.000G-2.600G		1500				BWT	OS		CO	
85	SE219-50	1950M	350m	1.40G-2.50G	CW	1450	17m			BWT†*	OS	VT	CO	14.5 △
86	VA184F	2950M	.04 †	1.700G - 4.200G	CW	1200	.025			BWT†	OS	VT	CO	10
87	F2556	3000M	.01 †	2.000G - 4.000G		400	.015			BWT†	OS	VT	CO	1.75 △
88	VA184M	3000M	.05 †	2.000G - 4.000G	CW	1200	.035			BWT†	OS	VT	CO	10 △
89	VA435M	3000M	.05 †	2.000G - 4.000G	CW	1250	.039			BWT*†	OS	VT	CO	4.5
90	VA184T	3000M	.10 †	2.000G - 4.000G	CW	1200	.025			BWT	OS	VT	CO	10
91	SE215-50	3000M	300m	1.70G-4.20G	CW	2150	15m			BWT†*	OS	VT	CO	7.25 △
92	SE215A50	3000M	300m	2.00G-4.00G	CW	2000	15m			BWT†*	OS	VT	CO	7.25 △
93	WJ2018-50	3000M	360m	2.00G-4.00G	CW	2000	15m			BWT†*	OS	VT	CO	11.3 △
94	WJ2018-51	3000M	360m	1.70G-4.20G	CW	2200	15m			BWT†*	OS	VT	CO	11.3 △
95#	N1034	3450M	.07	2.400G - 4.500G	CW	1500	.07			BWT	OS	VT	CO	11 *
96	VA436M	3900M	.05	2.600G - 5.200G		1500	.035			BWT	OS		CO	4.5
97▼	WJ2038-50	3900M	50m†	2.600G-5.200G		1830				BWT§	OS		CO	
98	VA187M	3900M	.07	2.600G - 5.200G		1500	.035			BWT	OS		CO	10
99	F2553	4500M	.01 †	2.000G - 7.000G		1500	.015			BWT†	OS	VT	CO	1.75 △
100	SE221-50	5100M	130m	3.50G-6.75G	CW	2100	12m			BWT†*	OS	VT	CO	6.0 △
101	WJ2049-50	5125M	130m	3.50G-6.75G	CW	2100	12m			BWT†*	OS	VT	CO	11.3 △
102	VA160E	5400M	.02 †	3.600G - 7.200G	CW	1500	.041			BWT†*	OS	VT	CO	8.5
103	JAN7661	5635M	100m†	5.320G-5.950G		800	50m			BWT	OS	MT	CO	9.5 △
104	JAN7824	5.650G	50m†	5.400G-5.900G		200	10m			BWT	OS		CO	1.0
105	VA440N	5.65G	100m	5.4G-5.9G	CW	600				BWT	OS	VT	CO	4.0
106	VA160N	5650M	.40 †	5.400G - 5.900G	CW	800	.041			BWT†*	OS	VT	CO	8.5
107	JAN8076A	5.680G		5.430G-5.930G		400	25m			BWT§	OS	MT	CO	25 △
108	F2544	6000M	.01	4.000G - 8.000G	CW	2000	.015			BWT†	OS	VT	CO	3.5 △
109	F2555	6000M	.01 †	4.000G - 8.000G		2000	.015			BWT†	OS	VT	CO	1.75 △
110	SE211B50	6000M	15m	3.700G-8.300G	CW	2100	12m			BWT†*	OS	VT	CO	6.5 △

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY
(3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	VA440M	6000M	.02 †	4.000G - 8.000G	CW	1500	.035			BWT*†	OS	VT	CO	3.5
2	VA441F	6000M	.02	3.700G - 8.300G		1600	.032			BWT	OS		CO	4.5
3	VBC7506M	6000M	20m	4.00G-8.00G		1500	25			BWT	OS		CO	9.0
4♦#	F4084	6000M	30m†	4.000G-8.000G		1.5k	25mØ			BWT†	OS		WA	7.71
5	SE211A50	6000M	30m	4.000G-8.000G	CW	1900	12m			BWT†*	OS	VT	CO	6.5 Δ
6	VA441M	6000M	.04 †	4.000G - 8.000G	CW	1500	.035			BWT*†	OS	VT	CO	4.5
7	VA160M	6000M	.05 †	4.000G - 8.000G	CW	1500	.035			BWT*†	OS	VT	CO	8.5
8	VA185F	6000M	.05 †	3.700G - 8.300G	CW	1600	.035			BWT*†	OS	VT	CO	9.0
9	VA185M	6000M	.10 †	4.000G - 8.000G	CW	1500	.025			BWT	OS	VT	CO	9.0
10	WJ2019-50	6000M	120m	4.00G-8.00G	CW	1900	13m			BWT†*	OS	VT	CO	8.0 Δ
11	WJ2019-51	6000M	120m	3.70G-8.30G	CW	2150	13m			BWT†*	OS	VT	CO	8.0 Δ
12	F2547	9000M	.01	7.000G - 11.00G	CW	1000	.025			BWT†	OS	VT	CO	1.5 Δ
13#	W421	9050M	.018	8.500G - 9.600G	CW	620	.01			BWT*†	OS	VT	CO	8.8
14	VA451N	9050M	.03 †	8.500G - 9.600G	CW	280	.035			BWT†*	OS	VT	CO	3.0
15	VA461N	9050M	.03 †	8.500G - 9.600G	CW	1000	.03			BWT†	OS	VT	WA	4.0
16	VA462N	9050M	.04 †	8.500G - 9.600G	CW	310	.035			BWT†*	OS	VT	WA	3.0
17	VA450N	9050M	.05 †	8.500G - 9.600G	CW	600	.035			BWT†*	OS	VT	CO	3.0
18	VA460N	9050M	.07 †	8.500G - 9.600G	CW	1600	.03			BWT†	OS	VT	WA	4.0
19#	W421A	9150M	.03	8.100G - 10.20G	CW	870	.015			BWT*†	OS	VT	CO	8.8
20#	N1010	9250M	.03	7.000G - 11.50G	CW	1700	.05			BWT	OS	VT	CO	11 *
21	VA450M	9700M	.02 †	7.000G - 12.40G	CW	1500	.035			BWT*†	OS	VT	CO	3.0
22	VA173M	9700M	.04 †	7.000G - 12.40G	CW	1500	.035			BWT*#	OS	VT	CO	7.0 Δ
23	WJ2039-51	9700M	125m	7.00G-12.4G	CW	2150	12m			BWT†*	OS	VT	CO	9.5 Δ
24	WJ2001-51	9700M	175m	7.00G-12.4G	CW	1600	12m			BWT†*	OS	VT	CO	6.0 Δ
25	WJ2020-50	9700M	175m	8.000G-12.4G	CW	1600	12m			BWT†*	OS	VT	CO	9.5 Δ
26	WJ2020-51	9700M	175m	7.00G-12.4G	CW	1600	12m			BWT†*	OS	VT	CO	9.5 Δ
27	F2554	10000M	.01	8.000G - 12.00G		2100	.012			BWT†	OS	VT	CO	1.75 Δ
28	SBX2980	10000M	.015	8.000G - 12.00G	CW	1100	.008			BWT†	OS	VT	CO	
29	VA451M	10200M	.015 †	8.000G - 12.40G	CW	650	.035			BWT*†	OS	VT	CO	3.0
30	VA161F	10200M	.02 †	8.000G - 12.40G	CW	650	.035			BWT*†	OS	VT	WA	7.5
31	VA450C	10200M	.04 †	8.000G - 12.40G	CW	1500	.038			BWT*†	OS	VT	CO	3.0
32	VA460M	10200M	.05 †	8.000G - 12.40G	CW	1500	.035			BWT*†	OS	VT	WA	3.0
33	VA173T	10200M	.08 †	8.000G - 12.40G	CW	1500	.038			BWT*†	OS	VT	CO	7.5
34	VA175M	10200M	.08 †	8.000G - 12.40G	CW	1500	.035			BWT*†	OS	VT	WA	7.5
35	VA173TA	10200M	.10 †	8.000G - 12.40G	CW	1500	.025			BWT	OS	VT	CO	8.0
36	VA175T	10200M	.10 †	8.000G - 12.40G	CW	1500	.038			BWT*#	OS	VT	WA	7.5
37	WJ2039-50	10200M	125m	8.00G-12.4G	CW	2150	12m			BWT†*	OS	VT	CO	9.5 Δ
38	WJ2001-50	10200M	175m	8.00G-12.4G	CW	1600	12m			BWT†*	OS	VT	CO	6.0 Δ
39	VA161M	10300M	.02 †	8.200G - 12.40G	CW	650	.035			BWT*#	OS	VT	WA	9.0
40	VA461M	10300M	.02 †	8.200G - 12.40G	CW	650	.035			BWT*†	OS	VT	WA	3.0
41	SE209A50	10300M	50m	8.00G-12.4G	CW	2100	12m			BWT†*	OS	VT	CO	6.0 Δ
42	VBX7504M	11500M	20m	7.00G-16.0G		1700	18			BWT	OS		CO	8.0
43♦#	F4032B	12000M	15m†	8.000G-16.000G		1.9k	20mØ			BWT†	OS		WA	5.51
44	VA472M	12500M	.02 †	10.00G - 15.00G	CW	1300	.027			BWT*†	OS	VT	WA	3.0
45	VA177M	12500M	.05 †	10.00G - 15.00G	CW	1300	.027			BWT*†	OS	VT	WA	7.0 Δ
46	SE220-50	12800M	48m	10.0G-15.5G	CW	2250	10m			BWT†*	OS	VT	WA	6.0 Δ
47	VBX7505M	13250M	20m	8.50G-18.0G		1700	18			BWT	OS		CO	8.0
48	VA162F	15000M	.005 †	10.00G - 20.00G	CW	1500	.025			BWT*†	OS	VT	WA	8.0
49	F2557	15000M	.01	12.00G - 18.00G						BWT†	OS			
50	SBU4531	15.000G	20	14.000G-16.000G	CW	1.800k	30m			BWT§	OS		WA	
51	SBU4532	15.000G	20	14.000G-16.000G	CW	1.800k	30m			BWT§	OS		WA	
52	VA470M	15200M	.02 †	12.40G - 18.00G	CW	1000	.025			BWT*#	OS	VT	WA	3.0
53♦#	F4171A	15200M	25m†	12.400G-18.000G		1.5k	20mØ			BWT†	OS		WA	5.51
54	VA162M	15200M	.05 †	12.40G - 18.00G	CW	1000	.025			BWT*†	OS	VT	WA	8.0
55	WJ2003-50	15200M	90m	12.4G-18.0G	CW	2020	12m			BWT†*	OS	VT	WA	6.0 Δ
56	WJ2056-50	15200M	100m	12.4G-18.0G	CW	2100	15m			BWT†*	OS	VT	WA	9.0 Δ
57	WJ2060-50	15200M	100m	12.4G-18.0G	CW	2100	15m			BWT†*	OS	VT	WA	9.0 Δ
58	VA470N	15500M	.05 †	14.00G - 17.00G	CW	900	.025			BWT*†	OS	VT	WA	3.0
59	SBU4530	16200M	.015	15.40G - 17.00G	CW	1300	.023			BWT§	OS	VT	CO	.50 Δ
60▼	JANDOD030	16500M	100m†	16.35G-16.65G	1.0m	2100	30m			BWT	OS	VT	WA	6.5 Δ
61♦#	CMA1290	16500M	100 †	15.400G-17.600G		5.0k	300mØ			BWT†	OS		WA	7.93
62	VA482M	18500M	.01	15.00G - 22.00G		1300	.02			BWT	OS		CO	4.0
63	VA178M	18500M	.025	15.00G - 22.00G		1300	.02			BWT	OS		WA	8.0
64	VA480M	22250M	.01 †	18.00G - 26.50G	CW	1000	.017			BWT*	OS	VT	WA	3.0
65	VA163M	22250M	.025 †	18.00G - 26.50G	CW	1000	.017			BWT*†	OS	VT	WA	8.0
66	SE218-50	22500M	50m	18.0G-26.5G	CW	2050	10m			BWT†*	OS	VT	WA	6.0 Δ
67	WJ2057-50	22500M	70m	18.0G-26.5G	CW	2050	10m			BWT†*	OS	VT	WA	8.0 Δ
68	WJ2061-50	22500M	70m	18.0G-26.5G	CW	2050	10m			BWT†*	OS	VT	WA	8.0 Δ
69	VA490M	33250M	.005 †	26.50G - 40.00G	CW	1500	.017			BWT*	OS	VT	WA	3.0
70	SE222	33250M	.01 †	26.50G - 40.00G	CW	2100	.005			BWT*†	OS	VT	WA	3.75 Δ
71	VA164M	33250M	.01 †	26.50G - 40.00G	CW	1500	.017			BWT*†	OS	VT	WA	8.0
72	SE222-50	33250M	35m	26.5G-40.0G	CW	2050	5.0m			BWT†*	OS	VT	WA	5.0 Δ
73	WJ2058-50	33250M	35m	26.5G-40.0G	CW	2050	5.0m			BWT†*	OS	VT	WA	8.0 Δ
74	WJ2062-50	33250M	35m	26.5G-40.0G	CW	2050	5.0m			BWT†*	OS	VT	WA	8.0 Δ
75#	RW040	34250M	120m	26.50G-42.00G	CW	2800	18m			BWT	OS	VT	WA	17 *
76	VA490N	35000M	.02 †	34.00G - 36.00G	CW	1100	.017			BWT†*	OS	VT	WA	2.5
77	SBV4370	37000M	.02	34.00G - 40.00G	CW	2500	.02			BWT†	OS	VT	WA	7.0
78♦#	CO80	40000M	10 †	39.500G-40.500G		6.0k	80mØ			BWT†	OS		WA	35.27
79▼#	F4143	40000M	10 †	39.500G-40.500G		6.0k	80mØ			BWT†	OS		WA	35.27
80#	RW050	41500M	100m	33.00G-50.00G	CW	2700	15m			BWT	OS	VT	WA	17 *
81	BA47F	47500M	.15	43.00G - 52.00G	CW	3600	.033			BWT	OS	VT	WA	17.6
82	BA50G	49750M	.15	45.00G - 54.00G	CW	3600	.033			BWT	OS	VT	WA	17.6
83▼#	BW050	50000M	2.0m†	40.000G-60.000G		3000	10m			BWT	OS	VT	WA	15.43
84#	RW060	52500M	50m	40.00G-65.00G	CW	2800	16m			BWT	OS	VT	WA	17 *
85	BA55B	55000M	.12	50.00G - 59.00G	CW	3600	.033			BWT	OS	VT	WA	17.6
86	SBM4212	56500M	.005 †	50.00G - 63.00G	CW	3400	.025			BWT†	OS	VT	WA	7.0
87	BA60C	60000M	.10	54.00G - 65.00G	CW	3600	.033			BWT	OS	VT	WA	17.6
88#	RW075	62500M	40m	50.00G-75.00G	CW	2700	15m			BWT	OS	VT	WA	17 *
89#	BA65A	65000M	100m	60000M-71000M	CW	3600	33m			BWT	OS	VT	WA	19.36
90▼#	BA70X	67500M	20m†	60.000G-75.000G		3500	33m			BWT	OS	VT	WA	15.43
91#	BA70C	70000M	80m	65000M-75000M	CW	3600	33m			BWT	OS	VT	WA	19.36
92♦#	CO40B	70000M	5.0 †	69.000G-71.000G		6.0k	60mØ			BWT†	OS		WA	35.27
93▼#	F4076	70000M	5.0 †	69.000G-71.000G		6.0k	60mØ			BWT†	OS		WA	35.27
94♦#	CO40A	74500M	3.0 †	73.000G-76.000G		6.0k	60mØ			BWT†	OS		WA	35.27
95▼#	F4150	74500M	3.0 †	73.000G-76.000G		6.0k	60mØ			BWT†	OS		WA	35.27
96▼#	BW080	75000M	1.0m†	60.000G-90.000G		3000	10m			BWT	OS	VT	WA	15.43
97#	RW080	75000M	30m	60.00G-90.00G	CW	2700	15m			BWT	OS	VT	WA	17 *
98#	BA75C	75000M	80m	70000M-80000M	CW	3600	33m			BWT	OS	VT	WA	19.36
99	SBE4023	78000M	.005	70.00G - 86.00G	CW	3300	.02			BWT†	OS	VT	WA	7.0
100▼#	BA85X	85000M	20m†	75.000G-90.000G		3500	33m			BWT	OS	VT	WA	15.4
101#	BA85A	85000M	80m	80000M-90000M	CW	3600	33m			BWT	OS	VT	WA	19.36
102	SBF4221	92000M	.01	86.00G - 98.00G	CW	2900	.017			BWT†	OS	VT	WA	7.0
103#	RW0110B	92500M	15m	75.00G-110.0G	CW	2700	15m			BWT	OS	VT	WA	17 *
104#	BA95A	95000M	80m	90000M-100G	CW	3600	35m			BWT	OS	VT	WA	19.36
105#	BA100C	100G	50m	95000M-105G	CW	3600	35m			BWT	OS	VT	WA	19.36
106♦#	CO20B	132000M	200m†	128.00G-136.00G		6.0k	60mØ			BWT†	OS		WA	35.27
107▼#	F4075	132000M	200m†	128.00G-136.00G		6.0k	60mØ			BWT†	OS		WA	35.27
108♦#	CO20A	153000M	200m†	150.00G-156.00G		6.0k	60mØ			BWT†	OS		WA	35.27
109▼#	F4146	153000M	200m†	150.00G-156.00G		6.0k	60mØ			BWT†	OS		WA	35.27
110♦#	CO10	300000M	10m†	290.00G-310.00G		6.0k	60mØ			BWT†	OS		WA	35.27

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1▼#	F4074	300000M	10m†	290.00G-310.00G		6.0k	60mØ			BWT†	OS		WA	35.27
2♦#	CO09	335000M	10m†	320.00G-350.00G		6.0k	60mØ			BWT†	OS		WA	35.27
3▼#	F4114	335000M	10m†	320.00G-350.00G		6.0k	60mØ			BWT†	OS		WA	35.27
4	SFD225	428M	250k†	405M-450M	20m	15k	30	10		CFA	AM		CO	200 △
5	QKS630	1300M	1.32k	1.250G-1.350G	2.4m	38k	37			CFA	OS	MT	WA	16
6	QKS1319	1300M	3.0k	1.250G-1.350G	30m	10k	20	13		CFA	AM		CO	50
7	QKS1181	1300M	3.85k	1.250G-1.350G	800u	85k	130	11		CFA	AM		WA	120
8	QKS642	1305M	8.0k	1.280G-1.350G	1.6m	88k	125	9.0		CFA	AM		WA	180
9	QKS653	1315M	3.6k	1.280G-1.350G	700u	105k	98	11.2		CFA	AM		WA	120
10	7577	1315M	5300k	1.28G-1.35G	7.0m	105k	98	11.2		CFA	AM		WA	120
11	QKS1262	2450M		2.425G-2.475G	CW	18k	4.0			CFA	OS	FF	WA	150
12	QKS783	2800M	7.5k	2.700G-2.900G	5.0m	53k	40	7.0		CFA	AM		WA	110
13	QKS1439	2850M	1.0k	2.200G-3.500G	500m	8.5k	400m	16		CFA	AM		CO	27
14	QKS973	2860M	3.0k	2.840G-2.880G	1.0m	52k	72	8.0		CFA	AM	FF	WA	110
15	RW617#3	2900M	1000	2.600G-3.200G	CW	5500 Ø	700mØ	17		CFA*	AM		WA	17
16	RW617#2	2900M	3000	2.600G-3.200G	330m	6500 Ø	1.5	20		CFA*	AM		WA	17
17	SFD612	2900M	5.0k†	2.6G-3.2G	2.0m	5.0k				CFA#	AM		CO	12 △
18	RW617#1	2900M	6000	2.600G-3.200G	100m	8000	2.2	20		CFA*	AM		WA	17
19	SFD246	2900M	10k†	2.7G-3.1G	10m	5.0kØ	5.0	13		CFA#	AM		WA	12 △
20	SFD605	2950M	1000	2.600G - 3.300G	CW	6000	3.0	10		CFA§	AM		WA	13
21	8900	2995M	1.32k	2.905G-3.085G	.022	29	3.8	14		CFA#	AM	FF	WA	50
22	QKS1452	2998M	4.2k	2.994G-3.002G	1.4m	52k	72	8.0		CFA	AM	FF	WA	110
23	QKS1543	3000M	498	2.900G-3.100G	8.3m	27k	3.7	14		CFA	AM		WA	55
24	RW619#3	3000M	1000	2.000G-4.000GØ	CW	6500	1.0	17		CFA	AM	VT	WA	17
25	QKS1544	3000M	1.4k	2.900G-3.100G	2.0m	54k	21	12		CFA	AM		WA	110
26	QKS1558	3000M	1.76k	2.900G-3.100G	1.1m	56k	42	8.0		CFA	AM		WA	110
27	QKS846	3000M	3.0k	2.900G-3.100G	1.0m	54k	72	7.0		CFA	AM		WA	130
28	QKS1559	3000M	3.0k	2.900G-3.100G	1.0m	56k	72	8.0		CFA	AM		WA	110
29	QKS1672	3000M	3.0k	2.990G-3.010G	1.0m	54k	72	7.0		CFA	AM		WA	110
30	RW619#2	3000M	3000	2.000G-4.000GØ	333m	7500	1.5	20		CFA	AM	VT	WA	17
31	QKS1549	3000M	4.8k	2.900G-3.100G	1.6m	56k	72	8.0		CFA	AM		WA	130
32	8898	3000M	6.660k	2.900G-3.100G	.01	55	20			CFA#	AM	FF	WA	130 △
33	QKS1540	3000M	8.3k	2.900G-3.100G	12.4m	55k	20	11.4		CFA	AM		WA	110
34	RW619#1	3000M	10000	2.000G-4.000GØ	100m	9000	3.2	20		CFA	AM	VT	WA	17
35	8899	3000M	12.760k	2.900G-3.100G	.005	56	54			CFA#	AM	FF	WA	130 △
36	QKS1194	3000M	15k	2.800G-3.200G	20m	56k	23	12		CFA	AM		WA	115
37	JAN8900	3000M	60000	2.905G-3.085G	30m	36000	5.0			CFA#	AM		WA	55 △
38	8934	3000M	60000	2.90G-3.10G	28m	27000	3.7 △	16		CFA#	AM		WA	55
39	JAN8934	3000M	60000	2.90G-3.10G	30m	36000	5.0			CFA#	AM		WA	55 △
40♦#	TH4011	3000M	60k†	2.900G-3.100G	20m	8.0k	20	14		CFA†	AM		WA	
41	JAN8129D	3000M	666000	2.90G-3.10G	14.8m	60000	23.5			CFA#	AM		WA	130 △
42	JAN8898	3000M	666000	2.905G-3.085G	10m	60000	23			CFA#	AM		WA	130 △
43	JAN8899	3000M	2200k	2.905G-3.085G	6.6m	60000	66			CFA#	AM		WA	130 △
44	JAN8129F	3000M	2600k	2.90G-3.10G	7.56m	60000	66			CFA#	AM		WA	130 △
45	QKS1541	3000M	2600k	2.90G-3.10G	5.7m	56000	66	7.0		CFA	AM		WA	110
46	QKS1591	3050M	5.3k	3.000G-3.100G	8.0m	53k	20	11.4		CFA	AM		WA	130
47	VXS1059	3050M	60000 †	3.00G-3.10G	20m	7500	20 △			CFA#	AM			40
48	QKS1286	3100M	1.9k	3.000G-3.200G	12m	56k	42	9.0		CFA	AM		WA	130
49	QKS1552	3100M	25k	2.990G-3.250G	25m	49k	30	10		CFA	AM		WA	160
50	L5373	3.100G	500k	2.700G-3.500G	10m	23k	70	13		CFA	AM		WA	150
51	QKS1380	3120M	2.16k	2.990G-3.250G	1.8m	56k	33	10		CFA	AM		WA	130
52	QKS1646	3200M	1.2k	3.100G-3.500G	60m	18k	20	11		CFA	AM		WA	
53	QKS1484	3215M	7.2k	3.170G-3.260G	12m	29k	3.7	14		CFA	AM		WA	55
54	SFD238	3300M	125k†	3.1G-3.5G	8m	15k§Ø	20	12		CFA#	AM		WA	40 △
55	SFD243	3300M	125k†	3.1G-3.5G	8m	14k	21	11.5		CFA#	AM		WA	40 △
56	SFD254	3300M	500k†	3.1G-3.5G	10m	28k	40	14		CFA#	AM		WA	65 △
57	QKS1606	3300M	750k	3.100G-3.500G	60m	29k	45	10		CFA	AM		CO	200
58	RW618#3	5000M	800	4.600G-5.400G	CW	6000 Ø	700mØ	17		CFA*#	AM	VT	WA	17
59	RW618#2	5000M	2500	4.600G-5.400G	330m	7500 Ø	1.4	20		CFA*#	AM	VT	WA	17
60	RW618#1	5000M	5000	4.600G-5.400G	100m	8500 Ø	2.3	20		CFA*#	AM	VT	WA	17
61	QKS1130	5500M	3.2k	5.000G-6.000G	5.2m	43k	21	16		CFA	AM	FF	WA	55
62	L5408	5600M	500k	5.300G-5.900	2.0m	22000	750	13		CFA	AM		WA	85
63	SFD231	5.638G	1.0M†	5.45G-5.825G	3.5m	40k	60	14†		CFA#	AM		WA	60 △
64	QKS807	5650M	5.0k	5.500G-5.800G	2.0m	52k	63	7.0		CFA	AM		WA	55
65	QKS1584	5650M	6.0k	5.400G-5.900G	1.0m	54k	25	18		CFA	AM		WA	70
66	SFD244	5.65G	50k†	5.4G-5.9G	1.6m	10k	14	12		CFA	AM		WA	28 △
67	SFD244A	5650M	65k†	5.400G-5.900G	1.2m	10k	18	12†		CFA†	AM		WA	28 △
68	SFD250	5650M	500k†	5.4G-5.9G	10m	30k	50	10		CFA#	AM		WA	75 △
69	VXC1060	5650M	500000 †	5.40G-5.90G	10m	25000	45 △			CFA#	AM			210
70	QKS1343#1	5650M	600k	5.400G-5.900G	9.8m	53k	25 △	10		CFA#	AM		WA	75
71	SFD249	5650M	800k†	5.4G-5.9G	10m	40k	55	13		CFA#	AM		WA	60 △
72	SFD222	5650M	1.0M†	5.400G-5.900G	1.4m	40k	60	17†		CFA†	AM		WA	57 △
73	SFD222A	5650M	1.0M	5.40G-5.90G	1.4m	38000	55			CFA	OS		WA	60
74	SFD237	5.65G	1.0M†	5.4G-5.9G	10m	30k§Ø	80	13		CFA	AM		WA	160 △
75	SFD257	5650M	1.0M†	5.400G-5.900G	.001	30k	85	13†		CFA†	AM		WA	205 △
76	QKS1343#2	5650M	1.20M	5.400G-5.900G	5.6m	55k	41 △	7.0		CFA#	AM		WA	75
77	SFD252	5650M	2.0M†	5.4G-5.9G	10m	35k	120	13		CFA#	A△		WA	
78	RW620#3	6000M	1000	4.000G-8.000GØ	CW	6500	1.0	17		CFA	AM	VT	WA	17
79	RW620#2	6000M	2500	4.000G-8.000GØ	300m	7500	1.5	20		CFA	AM	VT	WA	17
80	RW620#1	6000M	8000	4.000G-8.000GØ	100m	9500	3.2	20		CFA	AM	VT	WA	17
81♦#	CMP1115	6175M	500 †	5.925G-6.425G		3.8k	375m	16†		CFA†	AM		WA	12.56
82	L5334	9.000G	500k	8.500G-9.600G	1.0m	24k	75	17		CFA	AM		WA	25
83	QKS506	9100M	1.0k	9.000G-9.200G	1.0m	37k	58	10		CFA	AM		WA	35
84	QKS1611	9100M	1.2k	9.000G-9.200G	4.0m	36k	19	14.8		CFA	AM		WA	35
85	VXX1062	9125M	300000 †	9.00G-9.25G	4.0m	32000	24 △			CFA	AM			28
86	QKS1697	9215M	480k	9.10G-9.33G	2.5m	38000		17		CFA	AM		WA	
87	QKS1350	9250M	120	8.900G-9.600G	12m	16k	2.0	8.0		CFA	AM		WA	9.5
88	L5347	9.250G	200k	9.000G-9.500G	3.5m	20k	34	18		CFA	AM		WA	25
89	SFD227	9.25G	250k†	9.0G-9.5G	1.0m	30k	22	13		CFA	AM		WA	28 △
90	SFD218A	9.25G	500k†	9.0G-9.5G	1.0m	35k	35	12		CFA	AM		WA	28 △
91	SFD232	9250M	500k†	9.000G-9.500G	5.0m	34k	40	12†		CFA†	AM		WA	35 △
92	VXX1063	9250M	500000 †	9.00G-9.50G	1.0m	35000	35 △			CFA#	AM			28
93	SFD233	9250M	1.0M†	9.000G-9.500G	1.0m	40k	65	11.5†		CFA†	AM		WA	35 △
94	SFD241	9.3G	400k†	9.0G-9.6G	2.5m	33k	30	15		CFA	AM		WA	32 △
95	SFD218	9300M	500k†	9.0G-9.6G	2.5m	34k	35	13		CFA	AM		WA	30 △
96	SFD242	9.3G	1.0M†	9.0G-9.6G	2.5m	40k	60	14		CFA	AM		WA	37 △
97	QKS1648	9330M	1.2k	9.200G-9.460G	4.8m	36k	20	14		CFA	AM		WA	35
98	QKS1729	9330M	250k	9.20G-9.46G	8.0m	36000	20	14		CFA	AM		WA	110
99	SFD240	9.4G	250k†	9.2G-9.6G	10m	2.0k	28	15.5		CFA	AM		WA	30 △
100	SFD223	9.4G	300k†	9.2G-9.6G	2.0m	32k	24	15		CFA	AM		WA	28 △
101	SFD217	9.4G	750k†	9.2G-9.6G	300u	38kØ	43	17		CFA	AM		WA	45 △
102	L5371	9.500G	60k	9.000G-10.000G	1.0m	9.0k	30	13		CFA	AM		WA	25
103	L5372	9.500G	500k	9.000G-10.000G	1.0m	23k	75	13		CFA	AM		WA	35
104	QKS1244	9600M	5.1k	9.500G-9.700G	1.7m	18k	3.6	14		CFA	AM		WA	8.5
105	QKS1243	9600M	7.0k	9.500G-9.700G	1.4m	36k	28	13		CFA	AM		WA	35
106	QKS1539	9650M	4.0k	9.350G-9.850G	20m	20k	2.2	13		CFA	AM		WA	17
107	L5346	9.750G	150k	9.500G-10.500G	3.0m	18k	28	18		CFA	AM		WA	28
108	QKS1705	9750M	500k	9.500G-10.000G	1.0m	34k	45	12		CFA	AM		WA	28
109	VXX1064	9750M	500000 †	9.50G-10.00G	1.0m	35000	35 △			CFA#	AM			28
110▼#	TH4012	11500M	500 †	11.000G-12.000G		5.7k	265m	16†		CFA†	AM		WA	11.02

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	SFD236	16500M	100k†	16.000G-17.000G	1.2m	16k	27	17†		CFA†	AM		WA	15 △
2♦	SFD511	3000M	150	2.800G - 3.200G	CW	6000	.10			CFGØ	OS			
3♦#	TV2053		5.0M†			135k	105 Ø			KL	AM		WA	121
4♦#	TV2092		7.5M†		24.6m	160k	115 Ø	45†		KL	AM		WA	264
5♦#	TV2030		20M†		1.0m	240k	235 Ø	43†		KL	AM		WA	143
6♦#	TV2042		20M†		1.0m	240k	235 Ø	40†		KL	AM		WA	143
7♦#	TV2091		20M†		1.0m	240k	235 Ø	43†		KL	AM		WA	176
8♦	JANDOD007	108M	50000 *	960M-1215M	25m	30000	8.0 △			KL *		MT	WA	45 △
9♦	L3403	425M	1.25M△	400.0M-450.0M	.06	120k	37	35		KL Ø		WA		2400 *
10♦	L3694	425M	1.25M△	400.0M-450,0M	.06	120k	37	35		KL Ø		WA		2300 *
11♦#	F2055Ø	500M	500k†		500m	50k	26 Ø	40†		KL	AM		WA	661
12♦#	TH2062	525M	10k†	470M-580M	CW	12k	2.1 Ø	42†		KL	AM	MT	WA	220
13♦#	TH2050	525M	25k†	470M-580M	CW	16.5k	3.3 Ø	47†		KL	AM	MT	WA	220
14♦#	F2008	555M	30k†	470M-640M	CW	18k	4.25 Ø	40†		KL	AM	MT	WA	198
15♦#	KAP1151	560M	55k†	470M-650M	CW	24k	6.0 Ø	46†		KL	AM	MT	WA	198
16#	1AV81	600M	11k	470M-690M	CW	16k	3.0	43		KL	AM	MT	CO	175
17#	1AV95	600M	11k	470M-690M	CW	16k	3.0	43		KL	AM	MT	CO	200
18♦#	TH2063	635M	10k†	570M-700M	CW	12k	2.1 Ø	42†		KL	AM	MT	WA	198
19♦#	TH2051	635M	25k†	570M-700M	CW	16k	3.3 Ø	46†		KL	AM	MT	WA	198
20♦#	KAP1152	675M	55k†	590M-860M	CW	24k	6.0 Ø	46†		KL	AM	MT	WA	198
21♦#	F2009#	710M	30k†	590M-830M	CW	18k	4.0 Ø	40†		KL	AM	MT	WA	198
22♦#	TH2064	775M	10k†	690M-860M	CW	12k	2.3 Ø	42†		KL	AM	MT	WA	165
23♦#	TH2052	775M	25k†	690M-860M	CW	16.5k	3.3 Ø	46†		KL	AM	MT	WA	165
24♦#	TH2048	807.5M	10k†	755M-860M	CW	18k	2.0 Ø	33†		KL	AM	MT	WA	271
25♦	JAN8493	1088M	600 *	960M-1215M	25m	20000	10			KL *		MT	CO	30
26	SAL4151	1.290G	5.0k	1.215G-1.365G		12.5k	2.0	30		KL	AM	MT	CO	
27	SAL0893	1.290G	11k	1.215G-1.365G		12.5k	4.0	30		KL	AM	MT	CO	
28	SAL2191	1.290G	32k	1.215G-1.365G		24k	4.0	30		KL	AM	MT	CO	
29♦	L3943	1300M	10000	1.290G-1.310G	.002	215.0k	200	33		KL Ø		FF	WA	667 *
30♦	JAN7504	1300M	2.0M△	1.240G-1.360G		125k	260m			KL #		MT	WA	
31♦	L3035	1300M	2.2M	1.240G-1.360G	.003	125.0k	87	36		KL Ø#		MT	WA	435 *
32♦	L3250	1300M	10M△	1.250G-1.350G	1.5m	185k	163	36		KL Ø			WA	667 *
33♦	L3660	1300M	10M△	1.250G-1.350G	2.0m	190k	185	33		KL #			WA	780 *
34♦	L3944	1300M	10M△	1.290G-1.310G	1.5m	250k	175	36		KL Ø		FF	WA	667 *
35♦	L3661	1300M	20M△	1.300G	1.5m	230k	270	45		KL #		FF	WA	1.21k*
36▼#	TH2068	1310M	3.0M△†	1.250G-1.370G	1.85m			49†		KL	AM	FF	WA	
37♦	L5235	1350M	300k	1.300G-1.400G	15m	60k	15	47		KL △		MT	WA	124
38♦	L5237	1350M	300k	1.300G-1.400G	7.0m	60k	15	47		KL △		MT	WA	145
39♦	VKL7774	1650M	2.0k	1.650G		6.2k	980m	33		KL	#	FF	WA	150 *
40♦#	TV2001	1800M	20M†	1.200G-2.400G	1.0m	235k	215 Ø	50†		KL	AM		WA	176
41▼#	TV2001W	1800M	20M†	1.200G-2.400G	1.0m	235k	215 Ø	50†		KL	AM		WA	176
42♦#	TV2022	1800M	20M†	1.200G-2.400G	2.5m	235k	215 Ø	50†		KL	AM		WA	220
43♦	VKS7795	2030M	2000	2.030G	CW	6500	1.1	33		KL †		FF	CO	
44♦#	TH2046	2050M	1.0k†	1.700G-2.400G	CW	6.0k	550mØ	40†		KL †	AM	MT	WA	83
45♦#	TH2406	2050M	1.0k†	1.700G-2.400G	CW	6.0k	550mØ	37†		KL †	AM	MT	WA	83
46♦	VKS7770	2050M	12000	1.700G-2.400G	CW	19000	1.85	40		KL Ø#		MT	WA	260
47♦	L3910	2287M	20	2.287G	CW	1500		40	27	KL △		FF	CO	3.0
48♦#	TH2054	2450M	50k†	2.425G-2.475G	CW	25k	3.25 Ø	50†		KL	AM	MT	WA	143
49♦#	TH2404	2550M	1.0k†	2.400G-2.700G	CW	6.5k	580mØ	40†		KL †	AM	MT	WA	83
50	QKK1719	2775M	100m	2.65G-2.90G	CW	300	30m			KL	OS	MT	CO	
51♦	L3989	2856M	19000		900u	250k	250	50		KL †#		FF	WA	400
52♦#	F2049	2856M	30M†		1.0m	290k	300 Ø	50†		KL	AM		WA	330
53♦	VA938C	2860M	4000k	2.820G-2.900G	3.0m	120k	81	43		KL Ø#		MT	WA	
54♦#	TV2013	2900M	4.0M†	2.700G-3.100G	20m	120k	85 Ø	47†		KL	AM		WA	189
55♦#	TV2012	2900M	5.0M†	2.700G-3.100G	2.0m	130k	95 Ø	50†		KL	AM		WA	132
56♦#	TV2017	2900M	5.0M†	2.700G-3.100G	2.0m	135k	105 Ø	35†		KL	AM	MT	WA	132
57♦#	TV2018	2900M	5.0M†	2.700G-3.100G	2.0m	135k	105 Ø	37†		KL	AM		WA	132
58♦#	TV2019	2900M	10M†	2.700G-3.100G	1.5m	170k	140 Ø	47†		KL	AM		WA	132
59♦#	TV2019W	2900M	10M†	2.700G-3.100G	1.8m	170k	140 Ø	47†		KL	AM		WA	132
60♦#	TV2011	2900M	20M†	2.700G-3.100G	1.0m	255k	225 Ø	50†		KL	AM		WA	143
61♦#	TV2002	2900M	25M†	2.700G-3.100G	840u	245k	240 Ø	50†		KL	AM		WA	154
62♦#	TV2014	2900M	25M†	2.700G-3.100G	120m	245k	240 Ø	50†		KL	AM		WA	143
63♦#	TV2015	2900M	25M†	2.700G-3.100G	1.0m	250k	250 Ø	50†		KL	AM		WA	143
64♦#	TV2028	2900M	25M†	2.700G-3.100G	1.6m	275k	203 Ø	50†		KL	AM		WA	176
65♦#	TH2047	2925M	1.0k†	2.800G-3.050G	CW	6.5k	500mØ	40†		KL †	AM	MT	WA	83
66♦#	F2015	2950M	6.0M†	2.700G-3.200G	1.0m	140k	140 Ø	37†		KL	AM		WA	143
67	JAN2K41	2985M	50m	2.660G-3.310G	CW	1250	60m			KL	OS	MT	CO	
68	JAN417C	2.985G	50m†	2.660G-3.310G	CW	750				KL	OS	MT	CO	
69♦#	TH2061	2998M	2.5M†		4.0m	110k	70 Ø	44†		KL	AM		WA	132
70♦#	TH2056	2998M	5.0M†		1.0m	145k	100 Ø	47†		KL	AM		WA	132
71♦#	F2043	2998M	20M†		250u	260k	250 Ø	40†		KL	AM		WA	176
72♦#	F2040	2998M	25M†		600u	250k	245 Ø	50†		KL	AM		WA	220
73♦#	F2042	2998M	30M†		1.0m	275k	280 Ø	50†		KL	AM		WA	330
74♦	JAN8237	3000M	6.72k*△	2.900G-3.100G	4.2m	105k	68			KL Ø#		FF	WA	130 △
75	QKK1720	3025M	100m	2.90G-3.15G	CW	300	30m			KL	OS	MT	CO	
76♦	VA811	3030M	1.0m	2.960G-3.100G	4.0m	90000	52	38		KL Ø#		MT	WA	110 §
77♦	VA811B	3030M	1.0M†	2.960G-3.100G	1.6m	90000	54	41.1		KL Ø#		FF	WA	110 △
78♦	VA811C	3030M	1.0M†	2.960G-3.100G	4.0m	90000	54	41.1		KL Ø#		FF	WA	110 △
79	L3742	3040M	1.0M	2.980G - 3.100G	.004	105.0k	68	35†		KL	AM		WA	410 *
80♦	L3975	3080M	100000	3.082G	.005	85000	28	30		KL △#		FF	WA	60
81♦#	TH2047P	3150M	8.0k†	2.800G-3.500G	CW	15k	1.7 Ø	45†		KL †	AM	MT	WA	83
82♦	VA816J	3500M	2.7M†	3.430G-3.570G	3.6m	125k	100	42		KL Ø#		BB	WA	85
83♦	JAN8196	3500M	3.5M	3.400G-3.600G	3.6m	125k	100			KL Ø			WA	
84	JAN6133	3525M	95m†	3.458G-3.592G	CW	300	45m			KL		VT	WA	
85♦#	V238A/1K	3800M	550m†	3.500G-4.300G*	CW	400	50m			KL †		SR	CO	
86♦#	V239C/1K	3900M	350m†	3.800G-4.000G*	CW	280	65m			KL †		MT	WA	
87♦#	V241C/1K	4100M	350m†	4.000G-4.240G*	CW	285	65m			KL †		MT	WA	
88#	V243A-3FS	4300M	750m†	4.2G-4.4G	CW	275	65m			KL	OS	SR	CO	
89♦#	V243A/2F	4350M	750m†	4.100G-4.600G*	CW	275	65m			KL †		SR	CO	
90♦#	V246A/1K	4600M	450m†	4.400G-4.850G*	CW	250	65m			KL †		SR	CO	
91♦#	V247C/1K	4700M	200m†	4.600G-4.800G*	CW	260	65m			KL †		FM	WA	
92♦#	V246A/2K	4700M	250m†	4.650G-4.860G*	CW	250	65m			KL †		SR	CO	
93♦#	F2006	4700M	1.2k†	4.400G-5.000G	CW	7.5k	470mØ	45†		KL	AM	MT	WA	66
94♦#	TH2407	4700M	12k	4.400G-5.000G	CW	6.7k	600mØ	38†		KL	AM	MT	WA	46
95	QKK412	5500M	90m	5.10G-5.90G	CW					KL	OS	MT		
96♦#	TV2024	5500M	5.0M†	5.000G-6.000G	2.0m	130k	95 Ø	50†		KL	AM		WA	116
97♦	JAN8406	5525M	35k△	5.395G-5.655G	7.35m	30k	55			KL #		MT	WA	135
98♦	JAN8315	5642M	300 †	5.385G - 5.900G	2.0m	9000	950m	30†		KL	AM	MT	CO	3.25
99	JAN8405	5.642G	25k	5.385G-5.9G	1.65m	20k	9.4			KL	AM	MT	WA	
100♦	VKC8342/8956	5650M	3.15m	5.400G-5.900G	1.8m	128k	104	30		KL Ø#		MT	WA	140
101♦	JAN8361	5650M	3.3m*	5.400G-5.900G	1.6m	135k	111	36†		KL #		MT	WA	140 △
102♦	8956	5650M	3.3m*	5.400G-5.900G	2.0m	135k	111	30		KL Ø		MT	WA	140 △
103▼	JAN8956	5650M	3.3m△	5.40G-5.90G	2.0m	135k	111	36†		KL #	AM	MT	WA	140 △
104♦#	TH2409	5710M	500 †		CW	7.5k	470mØ	40†		KL †	AM	MT	WA	66
105♦#	TH2067	5710M	5.0M†		200u	130k	95 Ø	50†		KL	AM		WA	110
106	QKK404	6137M	120m	5.92G-6.45G	CW	300	32m			KL	OS	MT	CO	
107♦	VA879G	7800M	100k	7.100G-8.500G		43k	7.0	51		KL Ø#		MT	WA	160 §
108♦	VKX7799	8150M	8500	7.900G-8.400G*	CW	13k	1.83	38.1		KL Ø#		MT	WA	20
109	SAX4701	8150M	15000	7.900G - 8.400G	CW	15000	1.85	50	35	KL	AM	MT	WA	100 *
110	JAN2K45	9050M	20m†	8.500G-9.660G	CW	350	30m			KL	OS	TT	CO	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

										DESCRIPTION				
LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	JAN2K25	9.080G	20m†	8.500G-9.660G		400	37m			KL		MT	CO	
2	JAN6312	9250M	.025 †	8.500G - 10.00G	CW	350	.042			KL	OS	MT	WA	.50
3♦	VKX7752	9500M	120000	9.000G-10.000G	4.0m	45000	12	50		KL #		MT	WA	10
4	8332	9800M	10	9.790G - 9.810G	CW	1000	.18			KL	AM		WA	.50
5♦#	TH2410	9900M	1.5k†	9.200G-10.600G	CW	9.0k	700mØ	60†		KL †	AM	MT	WA	9.9
6♦#	TV848	9900M	2000 †	9.000G-10.800G	CW	10000	900mØ	56†		KL †	AM	MT	WA	37
7♦	VKX7765A	10000M	1.5k	9.000G-11.000G		8.0k	700m	45		KL †		MT	WA	25
8♦#	TV851	10050M	2500 †	9.500G-10.600G	CW	10000	900mØ	30†		KL †	AM	MT	WA	30
9♦#	TV2032	10050M	5000 †	9.500G-10.600G	CW	14500	1.4 Ø	55†		KL †	AM	MT	WA	9.9
10♦	VA926	10500M	100000	8.500G-11.00G	15m	39000	6.1	50		KL Ø#		MT	WA	
11	QKK1491	11000M	50m	11.00G-11.00G	CW	300	32m			KL	OS	MT	WA	
12#	YK1210	12000M	1150	11.80G-12.20G	CW	10500	400m	43		KL	AM	MT	CO	
13	VA510B	13300M	2.0	13.30G	CW	2200				KL	OS	FF	CO	.44
14♦	L5341	17750M	200	17.500G-18.000G	134m	8000	500m	40		KL △		MT	CO	9.0
15	QKK1376	24500M	90m	23.00G-26.00G	CW	425	35m			KL	OS	MT	WA	
16▼#	VKQ2420G	40000M	60	30G-50GØ,90M⍁	CW	9500	180m			KL #	OS	MT	WA	11
17▼#	VKQ2420H	40000M	60	30G-50GØ,90M⍁	CW	9500	180m			KL #	OS	MT	WA	11
18▼#	VKQ2420C	40000M	75	30G-50G*,100M⍁	CW	8500	180m			KL #	OS	MT	WA	15
19▼#	VKQ2420D	40000M	75	30G-50G*,100M⍁	CW	8500	180m			KL #	OS	MT	WA	15
20▼#	VKQ2420A	40000M	100	30.000G-50.000G*	CW	8500	180m			KL #	OS	FF	WA	15
21▼#	VKQ2420B	40000M	100	30G-50G*,100M⍁	CW	8500	180m			KL #	OS	MT	WA	15
22▼#	VKQ2420E	40000M	100	30G-50G*	CW	9000	180m			KL #	OS	FF	WA	
23▼#	VKQ2420F	40000M	100	30G-50G*	CW	9000	180m			KL #	OS	MT	WA	
24#	VKE2401A2	55000M	50	55G	CW	6900	115m			KL	OS	FF	WA	10.25
25#	VKE2401A1	59600M	50	59.6G	CW	6900	115m			KL	OS	FF	WA	10.25
26▼#	VKE2401C	65000M	20	50G-80GØ,150M⍁	CW	6900	115m			KL #	OS	MT	WA	15
27▼#	VKE2401D	65000M	20	50G-80GØ,150M⍁	CW	6900	115m			KL #	OS	MT	WA	15
28▼#	VKE2401E	65000M	20	50G-80G*	CW	7600	135m			KL #	OS	FF	WA	
29▼#	VKE2401F	65000M	20	50G-80G*	CW	7600	135m			KL #	OS	MT	WA	
30▼#	VKE2401G	65000M	20	50G-80GØ,220M⍁	CW	7500	130m			KL #	OS	MT	WA	15
31▼#	VKE2401H	65000M	20	50G-80GØ,220M⍁	CW	7500	130m			KL #	OS	MT	WA	15
32♦#	VKE2401A	65000M	45	50G-80G*,150M⍁	CW	7500	130m			KL #	OS	FF	WA	11
33♦#	VKE2401B	65000M	45	50G-80G*,150M⍁	CW	7500	130m			KL #	OS	MT	WA	11
34#	VKE2401A3	65000M	50	65G	CW	6900	115m			KL	OS	FF	WA	10.25
35▼#	VKB2415G	95000M	5.0	80G-110GØ,95M⍁	CW	8500	95m			KL #	OS	MT	WA	17
36▼#	VKB2415H	95000M	5.0	80G-110GØ,95M⍁	CW	8500	95m			KL #	OS	MT	WA	17
37▼#	VKB2415E	95000M	10	80G-110G*,95M⍁	CW	8500	95m			KL #	OS	FF	WA	17
38▼#	VKB2415F	95000M	10	80G-110G*,95M⍁	CW	8500	95m			KL #	OS	MT	WA	17
39▼#	VKT2411G	125000M	2.0	110G-140GØ,150M⍁	CW	9900	100m			KL #	OS	MT	WA	10
40▼#	VKT2411H	125000M	2.0	110G-140GØ,150M⍁	CW	9900	100m			KL #	OS	MT	WA	10
41▼#	VKT2411E	125000M	5.0	110G-140G*,250M⍁	CW	9900	95m			KL #	OS	FF	WA	17
42▼#	VKT2411F	125000M	5.0	110G-140G*,250M⍁	CW	9900	95m			KL #	OS	MT	WA	17
43#	V190C/1M	900M	2.0 †	800.0M - 1.000G*	CW	300	.10			KLF†	OS	FM	CO	
44#	V271C/3M	7.1G	800m†	6.85G-7.35G*	CW	600	60m			KLF†	OS	FM	WA	
45#	V275C/3M	7.5G	800m†	7.25G-7.77G*	CW	600	60m			KLF†	OS	FM	WA	
46#	E3753	530M	80000	460M-600M	CW	28000	9.3	40		KLR	AM		WA	396
47▼	JAN5837#1	800M	50m†	800M,8.0M⍁	CW	70	29m			KLR	OS	SR		
48	SRL17	870M	1.0 †	750.0M - 990.0M	CW	1000	.09			KLR△	OS	MT	CO	1.7
49▼	JAN5837#3	1130M	10m†	1130M,8.0M⍁	CW	60	29m			KLR	OS	SR		
50	JAN5981	1353M	.04	1.245G - 1.460G	CW	350	.05			KLR		MT		
51	5981	1353M	175m	1.245G-1.460G	CW	225	46m			KLR	OS	MT	CO	
52	JAN6BM6	1803M	50m†	785M-2.820GØ	CW	700	32m			KLR	OS	SR	CC	
53	JAN6BM6A	1807M	50m†	795M-2.820GØ		700	29m			KLR	OS	SR	CC	
54	SRL7F	1815M	5.0	1.700G - 1.930G	CW	1000	.22			KLR	OS	MT	CO	2.0
55	JANSRL7F	1815M	5.0	1.700G - 1.930G		1000	.22			KLR		MT	CO	
56♦#	KRA1080	1850M	170m†	1.700G-2.000G		300	32mØ			KLR	OS	MT	WA	
57	7505	1850M	.28	700.0M - 3.000G*	CW	350	.035			KLR*△	OS	SE	WC	.12 §
58	SRL7C	1975M	5.0	1.850G - 2.100G	CW	1000	.22			KLR△	OS	MT	CO	2.0
59	SRL7G	2045M	5.0	1.930G - 2.160G	CW	1000	.22			KLR	OS	MT	CO	2.0
60	JANSRL7G	2045M	5.0	1.930G - 2.160G		1000	.22			KLR		MT	CO	
61	SRL7CH	2050M	7.0	1.700G - 2.400G	CW	1000	.20			KLR△	OS			2.0
62▼	JAN5837#2	2113M	50m†	2113M,8.0M⍁	CW	550	29m			KLR	OS	SR		
63	SRL7H	2160M	5.0	2.160G - 2.400G	CW	1000	.22			KLR	OS	MT	CO	2.0
64	5837	2175M	40m	550.0M-3.800G	CW	325	30m			KLR	OS	MT	CO	
65	6BM6	2175M	50m	550.0M-3.800G	CW	325	29m			KLR	OS	MT	CO	
66	6BM6A	2175M	50m	550.0M-3.800G	CW	325	24m			KLR	OS	MT	CO	70m
67♦#	KRA1081	2200M	35m†	1.700G-2.700G		320	22mØ			KLR	OS	MT	WA	
68	JANSRL7H	2280M	5.0	2.160G - 2.400G		1000	.22			KLR		MT	CO	
69#	CV2116	2500M	.15	1.000G - 4.000G	CW	300	.045			KLR	OS	SR		.063
70▼	JAN5837#4	2569M	20m†	2569M,8.0M⍁	CW	365	29m			KLR	OS	SR		
71	2K28A	2625M	140m	1.500G-3.750G	CW	300	40m			KLR	OS	MT	CO	
72	6133	2625M	140m	1.500G-3.750G	CW	300	40m			KLR	OS	MT	CO	
73	JAN726C	2830M	85m*	2.700G-2.960G	CW	330	35m			KLR	OS	MT	CO	
74	726C	2880M	100m	2.700G-2.960G	CW	300	30m			KLR	OS	MT	CO	90m
75	2K28	2900M	100m	1.800G-4.000G	CW	300	40m			KLR	OS	MT	CO	
76▼#	K3033	2900M	100m	1.8G-4.0G,30M⍁	CW	330	45m			KLR	OS	SR	CO	
77	2K41	2985M	2.75	2.660G - 3.310G	CW	1250	.06			KLR	OS	MT	CO	1.0
78	JAN726B	3028M	110m†	2.883G-3.173G		330	35m			KLR	OS	MT	WC	
79	726B	3028M	150m	2.883G-3.173G	CW	300	30m			KLR	OS	MT	CO	
80#	CV238	3030M	.15	2.930G - 3.130G	CW	300	.04			KLR	OS	MT	CO	.38
81#	K3067	3087M	35m	2950M-3225M	CW	330	45m			KLR	OS	MT	CO	370m
82	6043	3113M	150m	2.950G-3.275G	CW	300	40m			KLR	OS	MT	CO	
83#	CV6071	3200M	.10	1.000G - 5.400G	CW	370	.055			KLR	OS	SR		.063
84#	R9559	3200M	.10	1.000G - 5.400G	CW	370	.055			KLR	OS	SR		.063
85♦#	KR740	3200M	1.3 †	2.900G-3.500G		1.0k	100mØ			KLR	OS		WA	
86	JAN6BL6	3233M	.025 †	2.110G - 4.355GØ	CW	700	.035			KLR		SR		
87	JAN5836	3233M	.025 †	2.110G - 4.355GØ	CW	700	.03			KLR	OS	SR		
88	VA327	3350M	2.0 †	2.700G - 4.000G	CW	750	.085			KLR	OS	FF	CO	2.0
89	JAN2K28	3498M	80m†	3.315G-3.680G	CW	300	45m			KLR	OS	VT		
90#	Z237-1KW	3520M	125m†	3.505G-3.535G	CW	350	650mØ			KLR	OS		WA	88m
91♦#	KR741	3600M	200 †	3.450G-3.750G		850	76mØ			KLR	OS		WA	
92	2K29	3680M	100m	3.400G-3.960G	1.0	300	32m			KLR	OS	MT	CO	90m
93	7049	3750M	.125	1.500G - 6.000G*	CW	350	.035			KLR*△	OS	SE	WC	.12 §
94#	2K42	3750M	.50	3.300G - 4.200G	CW	1250	.06			KLR	OS	MT	CO	.50
95#	2K54C	3775M	.50	3.650G - 3.900G	CW	425	.035			KLR	OS	MT	CO	
96#	TK76⍁	3800M	.90	3.500G - 4.300G	CW	600	.07			KLR	OS	MT	CO	.817
97♦#	KR742	3875M	1.1 †	3.750G-4.000G		850	76mØ			KLR	OS		WA	
98#	Z239/1G	3.9G	1.0 †	3.6G-4.2G	CW	1.1k	70m			KLR	OS	MT	WA	
99	QKK1288	3950M	2.5	3.700G-4.200G	CW	750	85m			KLR	OS	MT	CO	
100	5836	4000M	50m	1.800G-6.000G	CW	300	30m			KLR	OS	MT	CO	
101#	TK8	4000M	.25	3.700G - 4.300G	CW	330	.035			KLR	OS	MT	CO	.110
102	6BL6	4050M	100m	1.600G-6.500G	CW	300	30m			KLR	OS	MT	CO	2.0
103#	4V27	4050M	.12	3.600G - 4.300G	CW	350	.035			KLR	OS	SR	WC	.07
104	1K125CA	4050M	1.25 †	3.700G - 4.400G	CW	1200	.11			KLR	OS	MT	WA	1.19
105♦#	KR743	4125M	1.1 †	4.000G-4.250G		850	76mØ			KLR	OS		WA	
106	2K56	4150M	100m	3.840G-4.460G	CW	300	32m			KLR	OS	MT	CO	
107#	2K54A	4175M	.50	4.050G - 4.300G	CW	425	.035			KLR	OS	MT	CO	
108	1K75CH	4250M	1.0 *	4.200G - 4.300G	CW	850	.06			KLR	OS	FF	CO	.53
109	1K75CK	4250M	1.0 *	4.200G - 4.300G	CW	850	.06			KLR	OS	FF	WA	.50
110	JANDOD002	4275M	4.0m	4.100G-4.450G	CW	330	35m			KLR		MT	CO	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	QK381	4275M	.004	4.100G - 4.450G	CW	250				KLR	OS	MT	CO	
2	JAN7049#2	4290M	25m†	4.225G-4.355G	CW	320	29m			KLR	OS	VT	WA	
3#	2K54DA	4300M	.05	4.250G - 4.350G	CW	275	.017			KLR	OS	MT	CO	
4	JAN8199	4.300G	200m†	4.250G-4.350G		500	40m			KLR		FF	WA	
5	1K75CK8199	4300M	250m†	4250M-4350M	CW	500	35m			KLR	OS	MT	WA	500m
6	8199	4300M	250m†	4.250G-4.350G	CW	6.3	1.5			KLR	OS	FF	WA	.50
7	BLK003	4300M	.30 †	4.250G - 4.350G	CW	700	85			KLR	OS	FF	WA	.50
8	1K75CS	4300M	1.0	4.250G - 4.350G	CW	700	.055			KLR	OS	FF	WA	1.5 △
9	1K75CLA	4350M	.24	4.300G - 4.375G	CW	900	.085			KLR	OS	MT	WA	.63
10#	R6015	4515M	.15	4.270G - 4.760G	CW	350	.07			KLR	OS	MT	CO	1.94
11	JAN2K22	4575M	.10	4.240G - 4.910G		350	.037			KLR	OS	MT	CO	.11 △
12	2K22	4575M	115m	4.240G-4.910G	CW	300	32m			KLR	OS	MT	CO	
13#	R6010	4600M	3.7	4.400G - 4.800G	CW	800	.15			KLR	OS	MT	CO	2.38
14	QKK1313	4650M	70m	4.300G-5.000G	CW	300	32m			KLR	OS	MT	CO	
15♦#	TV2126	4700M	1.1 †	4.330G-5.070G		1.0k	105mØ			KLR	OS	MT	WA	
16	VA259J	4700M	1.5 †	4.400G - 5.000G	CW	750	.08			KLR	OS	MT	WA	1.38
17	VA259T	4700M	1.5 †	4.400G - 5.000G	CW	750	.08			KLR	OS	MT	WA	1.38
18	1K125CB	4700M	1.8 †	4.400G - 5.000G	CW	1100	.11			KLR	OS	MT	WA	1.12
19♦#	TV2125CBA	4700M	1.8 †	4.400G-5.000G		1.0k	105mØ			KLR	OS	MT	WA	
20	1K125CD	4700M	2.0 †	4.330G - 5.070G	CW	1000	.105			KLR		MT		1.12
21	QKK1289	4700M	2.5	4.400G-5.000G	CW	750	85m			KLR	OS	MT	CO	
22	1K125CB-B	4900M	1.8 †	4.800G - 5.000G	CW	1000	.105			KLR		MT		1.12
23♦#	TV2125CBB	4900M	1.8 †	4.800G-5.000G		1.0k	105mØ			KLR	OS	MT	WA	
24	2K43	4950M	.40	4.200G - 5.700G	CW	1250	.06			KLR	OS	MT	CO	.50
25♦#	TV220J	5050M	600m†	4.900G-5.200G		750	80mØ			KLR	OS	MT	WA	
26	VA220J	5050M	1.0	4.900G - 5.200G	CW	750	.08			KLR	OS	MT	WA	.50
27♦#	TV221H	5405M	20m†	5.250G-5.560G		250	35mØ			KLR	OS	MT	WA	
28#	TV244H	5450M	.70	5.100G - 5.800G	CW	800	.08			KLR	OS	MT	WA	1.32
29	VA221H	5460M	.04	5.360G - 5.560G	CW	330	.04			KLR	OS	MT	WA	.44
30	JAN6115A	5500M	70m†	5.100G-5.900G		330	35m			KLR	OS	MT	WA	90m
31	6115A	5500M	100m	5.100G-5.900G	CW	300	32m			KLR	OS	MT	CO	90m
32	JAN6584	5500M	135m	5.100G-5.900G	CW	330	35m			KLR	OS	MT	CO	
33	JAN7049#1	5550M	10m†	5.200G-5.900G	CW	330	29m			KLR	OS	VT	WA	
34♦#	TV2412M	5550M	55m†	5.225G-5.875G		300	30mØ			KLR	OS	MT	WA	
35	JAN7471	5650M	.03 †	5.500G - 5.800G	CW	350	.063			KLR	OS	SR	WA	
36	VA118A	5650M	.125	5.400G - 5.900G	CW	775	.045			KLR	OS	MT	WA	
37#	TV244K	5650M	1.0	5.400G - 5.900G	CW	800	.08			KLR	OS	MT	WA	1.32
38	VA244K	5650M	1.0	5.400G-5.900G		750	80m			KLR	OS	MT	WA	1.38
39	JAN8316	5680M	1.2 †	5.430G-5.930G		900	110m			KLR	OS	MT	WA	
40	SRC64D1	5680M	1.2 †	5.430G - 5.930G	CW	900	.90			KLR△	OS	MT		
41	BT1316	5700M	.10	3.800G - 7.600G	CW	1000	.026			KLR	OS	MT	CO	.12
42	6236	5700M	125m	3.800G-7.600G	CW	1.0k	20m			KLR	OS	MT	CO	120m
43	BT6236A	5700M	.125	3.800G - 7.600G	CW	1000	.026			KLR	OS	MT	CO	.12
44	QKK1316	5900M	125m	3.800G-8.000G	CW	1.0k	26m			KLR	OS	MT	CO	
45	JAN6236	5938M	.10 †	4.190G - 7.685GØ		600	.022			KLR	OS	SR		.12
46	JAN6460	5950M	.70 †	5.300G - 6.600G	CW	775	.08			KLR	OS	VT	WA	
47	QKW1767	6000M	10m	3.80G-8.20G	1.0	1000	23m			KLR	OS	MT	CO	120m
48#	6V23	6075M	.50	6.025G - 6.125G	CW	800	.08			KLR	OS	MT	WA	
49	VA220F	6075M	1.0	5.925G - 6.225G	CW	750	.08			KLR	OS	MT	WA	.50
50	VA222F	6075M	1.0	5.925G - 6.225G	CW	750	.08			KLR	OS	MT	WA	.75
51#	6V221	6075M	1.2	5.925G - 6.225G	CW	775	.08			KLR	OS	MT	WA	
52#	6V211	6135M	.035	5.985G - 6.285G	CW	330	.035			KLR	OS	MT	WA	
53	VA221F	6135M	.04	5.985G - 6.285G	CW	330	.035			KLR	OS	MT	WA	.50
54▼#	6V26BR	6150M	100m	5.800G-6.200G	CW	300	25			KLR	OS		CO	
55▼#	6V26BMR	6150M	110m	5.800G-6.200G	CW	300	25			KLR	OS		CO	
56	VRJ7203A	6.175G	100m	5.925G-6.425G	CW	500	60m			KLR	OS	MT	WA	1.7
57	QKK549	6175M	130m	5.925G-6.425G	CW	300	32m			KLR	OS	MT	CO	
58	VA259AT	6175M	1.5 †	5.925G - 6.425G	CW	750	.08			KLR	OS	MT	WA	1.38
59	QKK965	6175M	2.0	5.925G-6.425G	CW	750	85m			KLR	OS	MT	CO	
60	QKK754A	6175M	2.5	5.925G-6.425G	CW	750	85m			KLR	OS	MT	CO	
61	7158	6188M	100m	5.925G-6.450G	CW	300	32m			KLR	OS	MT	CO	
62#	TV244A	6200M	.70	5.800G - 6.600G	CW	800	.08			KLR	OS		WA	1.33
63#	TV259A	6200M	1.0 †	5.900G - 6.500G	CW	750	.077			KLR	OS	MT	WA	1.37
64	VA259A	6200M	1.0 †	5.900G - 6.500G	CW	750	.085			KLR	OS	MT	WA	1.38
65#	K3114A	6200M	1.5	5.900G-6.500G	CW	800	80m			KLR	OS	MT	WA	880m
66	VA113	6250M	.135	5.925G - 6.575G	CW	750	.08			KLR	OS	MT	WA	1.19
67#	6V200	6275M	.40	6.225G - 6.325G	CW	775	.08			KLR	OS	MT	WA	
68	VA220E	6275M	1.0	6.125G - 6.425G	CW	750	.08			KLR	OS	MT	WA	.50
69	VA222E	6275M	1.0	6.125G - 6.425G	CW	750	.08			KLR	OS	MT	WA	.75
70#	6V222	6275M	1.2	6.125G - 6.425G	CW	775	.08			KLR	OS	MT	WA	
71▼#	KY366ET	6275M	1.4	6.12G-6.42G,35M⍁	CW	775	80m			KLR	OS	MT	WA	1.05
72▼#	KY367ET	6275M	1.4	6.12G-6.42G,35M⍁	CW	775	80m			KLR	OS	MT	WA	1.05
73▼#	6V26AR	6300M	110m	6.100G-6.500G	CW	300	25			KLR	OS		CO	
74▼#	6V26AMR	6300M	120m	6.100G-6.500G	CW	300	25			KLR	OS		CO	
75	EM1095	6300M	.37 †	5.900G - 6.700G*		600	.065			KLR		FF		
76	X26	6.4G	1.65	5.3G-7.5G†	CW	775	80m			KLR	OS	MT	WA	1.19
77#	6V212	6435M	.035	6.285G - 6.585G	CW	330	.035			KLR	OS	MT	WA	
78	VA221E	6435M	.04	6.285G - 6.585G	CW	330	.035			KLR	OS	MT	WA	.50
79	VA244	6450M	1.0	4.400G - 8.500G†	CW	750	.08			KLR	OS	MT	WA	1.37
80	VA222G	6500M	1.0	6.425G - 6.575G	CW	750	.08			KLR	OS	MT	WA	.75
81#	6V203	6500M	1.2	6.425G - 6.575G	CW	775	.08			KLR	OS	MT	WA	
82#	7V223	6500M	1.2	6.425G - 6.575G	CW	775	.08			KLR	OS	MT	WA	
83▼#	KY366GT	6500M	1.4	6.42G-6.57G,35M⍁	CW	775	80m			KLR	OS	MT	WA	1.05
84▼#	KY367GT	6500M	1.4	6.42G-6.57G,35M⍁	CW	775	80m			KLR	OS	MT	WA	1.05
85	VA220G	6.55G	1.0	6.425G-6.575G	CW	750	80m			KLR	OS	MT	WA	500m
86	2K44	6600M	1.0	5.700G - 7.500G	CW	1250	.06			KLR	OS	MT	CO	.50
87#	7V213	6645M	.04	6.585G - 6.705G	CW	330	.035			KLR	OS	MT	WA	
88	QKK1565	6650M	1.5	6.425G-6.875G	CW	750	85m			KLR	OS	MT	CO	
89	VA259BT	6650M	1.5 †	6.425G - 6.875G	CW	750	.08			KLR	OS	MT	WA	1.38
90	2K26	6660M	120m	6.250G-7.060G	CW	300	30m			KLR	OS	MT	CO	90m
91♦#	TV220B	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
92♦#	TV220C	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
93♦#	TV220D	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
94♦#	TV220E	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
95♦#	TV220F	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
96♦#	TV220G	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
97♦#	TV222B	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
98♦#	TV222C	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
99♦#	TV222D	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
100♦#	TV222E	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
101♦#	TV222F	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
102♦#	TV222G	6675M	1.0 †	5.925G-7.425G		750	80mØ			KLR	OS	MT	WA	
103#	VA221G	6.695G	40m	6.585G-6.705G	CW	330	35m			KLR	OS	MT	WA	
104#	YK1030	6700M	1.8	6.200G-7.200G	CW	750	85m			KLR	OS	MT	WA	926m
105♦#	TV221B	6705M	25m†	5.860G-7.550G		300	32mØ			KLR	OS	MT	WA	
106♦#	TV221C	6705M	25m†	5.860G-7.550G		300	32mØ			KLR	OS	MT	WA	
107♦#	TV221D	6705M	25m†	5.860G-7.550G		300	32mØ			KLR	OS	MT	WA	
108♦#	TV221E	6705M	25m†	5.860G-7.550G		300	32mØ			KLR	OS	MT	WA	
109♦#	TV221F	6705M	25m†	5.860G-7.550G		300	32mØ			KLR	OS	MT	WA	
110♦#	TV221G	6705M	25m†	5.860G-7.550G		300	32mØ			KLR	OS	MT	WA	

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION 1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1♦#	TV221K	6705M	25m†	5.860G-7.550G		300	32mØ			KLR	OS	MT	WA	
2	QKK531	6725M	130m	6.575G-6.875G	CW	300	32m			KLR	OS	MT	CO	
3	QKK1571	6725M	130m	6.575G-6.875G	CW	300	32m			KLR	OS	MT	CO	
4	VA220D	6725M	1.0	6.575G - 6.875G	CW	750	.08			KLR	OS	MT	WA	.50
5	VA222D	6725M	1.0	6.575G - 6.875G	CW	750	.08			KLR	OS	MT	WA	.75
6#	7V204	6725M	1.2	6.575G - 6.875G	CW	775	.08			KLR	OS	MT	WA	
7#	7V224	6725M	1.2	6.575G - 6.875G	CW	775	.08			KLR	OS	MT	WA	
8#	7V254	6725M	1.2	6.575G - 6.875G	CW	800	.08			KLR	OS	MT	WA	
9▼#	KY366DT	6725M	1.4	6.57G-6.87G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
10▼#	KY367DT	6725M	1.4	6.57G-6.87G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
11	VA259N	6725M	1.5 †	6.575G - 6.875G	CW	750	.08			KLR	OS	MT	WA	1.38
12	QKK910	6725M	2.0	6.575G-6.875G	CW	750	85m			KLR	OS	MT	CO	
13	QKK755A	6725M	2.5	6.575G-6.875G	CW	750	85m			KLR	OS	MT	CO	
14▼#	KY366CDT	6790M	1.4	6.64G-6.94G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
15#	R9701	6800M	.06	5.400G - 8.200G	CW	350	.055			KLR	OS	SR		.13
16▼#	TV244	6800M	700m†	5.100G-8.500G		750	80mØ			KLR	OS	MT	WA	
17#	7V272	6800M	1.3	6.400G - 7.200G	CW	800	.09			KLR	OS	MT	WA	
18	5976	6812M	110m	6.200G-7.425G	CW	300	32m			KLR	OS	MT	CO	90m
19#	TV259B	6812M	1.0 †	6.500G - 7.125G	CW	750	.077			KLR	OS	MT	WA	1.37
20	VA259B	6813M	1.0 †	6.500G - 7.125G	CW	750	.085			KLR	OS	MT	WA	1.38
21#	K3114B	6813M	1.5	6.500G-7.125G	CW	800	80m			KLR	OS	MT	WA	880m
22	VA259	6850M	1.0	5.200G - 8.500G†	CW	800	.08			KLR	OS	MT	WA	1.37
23#	7V214	6855M	.04	6.705G - 7.005G	CW	330	.035			KLR	OS	MT	WA	
24	VA221D	6855M	.04	6.705G - 7.005G	CW	330	.035			KLR	OS	MT	WA	.50
25	VA114	6875M	.10	6.575G - 7.175G	CW	750	.08			KLR	OS	MT	WA	1.19
26#	TV244B	6900M	.70	6.500G - 7.300G	CW	800	.08			KLR	OS		WA	1.33
27#	7V242	6900M	1.3	6.500G - 7.300G	CW	800	.09			KLR	OS	MT	WA	
28	VA326	6900M	3.5 †	5.900G - 7.800G	CW	750	.15			KLR	OS	MT	WA	1.5
29	5721	7000M	100m	2.000G-12.000G	CW	1.25k	26m			KLR	OS	MT	CO	
30#	YK1021	7000M	.10	6.500G - 7.500G	CW	330	.04			KLR	OS	MT	WA	.552
31	QKK532	7000M	130m	6.875G-7.125G	CW	300	32m			KLR	OS	MT	CO	
32	YK1010	7000M	130m	6.700G - 7.400G	CW	2600	20m			KLR	OS	MT	WA	2.21
33	VA220C	7000M	1.0	6.875G - 7.125G	CW	750	.08			KLR	OS	MT	WA	.50
34	VA222C	7.0G	1.0	6.875G-7.125G	CW	750	80m			KLR	OS	MT	WA	750m
35#	7V205	7000M	1.2	6.875G - 7.125G	CW	775	.08			KLR	OS	MT	WA	
36#	7V225	7000M	1.2	6.875G - 7.125G	CW	775	.08			KLR	OS	MT	WA	
37▼#	KY366CT	7000M	1.4	6.87G-7.12G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
38▼#	KY367CT	7000M	1.4	6.87G-7.12G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
39	VA259DT	7000M	1.5 †	6.875G - 7.125G	CW	750	.08			KLR	OS	MT	WA	1.38
40	QKK756A	7000M	2.5	6.875G-7.125G	CW	750	85m			KLR	OS	MT	CO	
41#	7V312	7.02G	1.1	6.575G-7.455G	CW	800	110m			KLR	OS	MT	WA	
42#	R9687	7100M	.15	7.100G	CW	350	.055			KLR	OS	SR		.063
43#	TK6	7100M	200m	6.500G-7.700G	CW	330	35m			KLR	OS	MT	CO	110m
44#	TK61	7100M	200m	6.500G-7.700G	CW	330	35m			KLR	OS	MT	CO	110m
45#	7V215	7105M	.04	6.955G - 7.255G	CW	330	.035			KLR	OS	MT	WA	
46#	VA221C	7.105G	40m	6.955G-7.255G	CW	330	35m			KLR	OS	MT	WA	500m
47▼#	TV259	7200M	1.0 †	5.900G-8.500G		750	80mØ			KLR	OS	MT	WA	
48	JAN8821	7275M	1.0 †	7.125G-7.425G		775	80m			KLR	OS	MT	WA	
49	VA220B	7.275G	1.0	7.125G-7.425G	CW	750	80m			KLR	OS	MT	WA	500m
50	JANVA220B	7275M	1.0 †	7.125G-7.425G		775	80m			KLR		MT	WA	
51#	7V226	7275M	1.1	7.125G - 7.425G	CW	775	.08			KLR	OS	MT	WA	
52#	LD857	7275M	1.2	7.125G - 7.425G	CW	800	.08			KLR	OS	MT	WA	
53▼#	KY366BT	7275M	1.4	7.12G-7.42G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
54▼#	KY367BT	7275M	1.4	7.12G-7.42G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
55	8821	7275M	1.7	7.125G-7.425G	CW	775	70m			KLR	OS	MT	WA	750m
56	VA222B8821	7275M	1.70	7.125G-7.425G		750	70m			KLR	OS	MT	WA	750m
57#	LD588	7300M	.10	7.050G - 7.550G	CW	330	.035			KLR	OS	MT	CO	.10
58	JAN5721	7310M	100m†	3.555G-11.065G		1250	26m			KLR	OS	SR	CO	
59	JANDOD016	7325M	90m†	7.00G-7.65G	CW	330	35m			KLR	OS	MT	CO	
60	QKK623	7388M	130m	7.125G-7.650G	CW	300	32m			KLR	OS	MT	CO	
61#	7V216	7405M	.035	7.255G - 7.555G	CW	330	.035			KLR	OS	MT	WA	
62	VA221B	7.405G	40m	7.255G-7.555G	CW	330	35m			KLR	OS	MT	WA	500m
63	VA115	7437M	.10	7.125G - 7.750G	CW	500	.08			KLR	OS	MT	WA	1.19
64	QKK752	7438M	100m	7.125G-7.770G	CW	300	32m			KLR	OS	MT	CO	
65	QKK967	7438M	2.0	7.125G-7.770G	CW	750	85m			KLR	OS	MT	CO	
66	QKK758A	7438M	2.5	7.125G-7.750G	CW	750	85m			KLR	OS	MT	CO	
67	VA259CT	7440M	1.5 †	7.125G - 7.750G	CW	750	.08			KLR	OS	MT	WA	1.38
68	VA259R	7440M	1.5 †	7.125G - 7.750G	CW	750	.08			KLR	OS	MT	WA	1.38
69	JANDOD001	7447M	90m†	7.050G-7.845G		330	36m			KLR		MT	CO	
70	QKK1333	7447M	100m	7.050G-7.845G	cw	300	32m			KLR	OS	MT	CO	
71#	7V40	7450M	.08	7.100G - 7.800G	CW	330	.035			KLR	OS	MT	WA	
72#	TV244C	7450M	.70	7.100G - 7.800G	CW	800	.08			KLR	OS		WA	1.33
73#	TV259C	7450M	1.0 †	7.100G - 7.800G	CW	750	.077			KLR	OS	MT	WA	1.37
74	VA259C	7450M	1.0 †	7.100G - 7.800G	CW	750	.08			KLR	OS	MT	WA	1.38
75#	7V243	7450M	1.3	7:100G - 7.800G	CW	800	.09			KLR	OS	MT	WA	
76#	7V273	7450M	1.3	7.100G - 7.800G	CW	800	.09			KLR	OS	MT	WA	
77#	K3114C	7450M	1.5	7.100G-7.800G	CW	800	80m			KLR	OS	MT	WA	880m
78#	R9760	7500M	75m†	3.00G-12.0G	CW	350	35			KLR	OS	VT		250m§
79	8052	7500M	.20	4.000G - 11.00G*	CW	1250	.025			KLR*△	OS	SE	WC	.12 §
80	JAN2K48	7575M	.005 †	4.300G - 10.85GØ	CW	1500	.015			KLR	OS	SR	CO	
81	8849	7.575G	700m†	7.425G-7.750G	CW	760	70m			KLR	OS	VT	WA	750m
82	YK1100	7575M	1.2	7.425G - 7.725G	CW	900	.11			KLR	OS	MT	WA	.928
83	VA222A	7.577G	1.0	7.425G-7.75G	CW	750	80m			KLR	OS	MT	WA	750m
84	JAN8849	7587M	700m†	7.425G-7.750G		775	80m			KLR	OS	MT	WA	
85♦#	TV220A	7587M	700m†	7.425G-7.750G		750	80mØ			KLR	OS	MT	WA	
86♦#	TV222A	7587M	700m†	7.425G-7.750G		750	80mØ			KLR	OS	MT	WA	
87#	8V227	7587M	1.0	7.425G - 7.750G	CW	775	.08			KLR	OS	MT	WA	
88#	8V257	7588M	1.0	7.425G - 7.750G	CW	800	.08			KLR	OS	MT	WA	
89	VA220A	7.588G	1.0	7.425G-7.75G	CW	750	80m			KLR	OS	MT	WA	500m
90▼#	KY366AT	7588M	1.2	7.42G-7.75G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
91▼#	KY367AT	7588M	1.2	7.42G-7.75G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
92#	8V69	7600M	.08	7.350G - 7.850G	CW	330	.035			KLR	OS	MT	CO	
93#	YK1050	7600M	110m	7.000G-8.200G	CW	300	32m			KLR	OS	MT	CO	110m
94	SRX4950	7700M	.008 †	7.250G - 7.750G†	CW	325	.035			KLR	OS	FF	WA	4.2
95♦#	TV221A	7700M	20m†	7.550G-7.850G		300	32mØ			KLR	OS	MT	WA	
96#	8V217	7700M	.04	7.550G - 7.850G	CW	330	.035			KLR	OS	MT	WA	
97	VA225	7750M	.70	7.000G - 8.500G†	CW	785	.085			KLR	OS	MT	WA	.63
98	VA264	7800M	.10	7.100G - 8.500G	CW	500	.05			KLR	OS	MT	WA	.41
99▼#	KY366JT	7800M	1.2	7.70G-7.90G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
100▼#	KY367JT	7800M	1.2	7.70G-7.90G,35M⧄	CW	775	80m			KLR	OS	MT	WA	1.05
101#	YK1020	7900M	100m	7.600G-8.200G	CW	300	35m			KLR	OS	MT	WA	551m
102#	YK1023	7900M	100m	7.600G-8.200G	CW	300	35m			KLR	OS	TT	WA	551m
103#	8V77	7925M	.06	7.650G - 8.200G	CW	330	.035			KLR	OS	MT	WA	
104#	8V208	7925M	1.0	7.750G - 8.100G	CW	775	.08			KLR	OS	MT	WA	
105#	8V228	7925M	1.0	7.750G - 8.100G	CW	775	.18			KLR	OS	MT	WA	
106	VA220Z	7.925G	1.0	7.75G-8.1G	CW					KLR	OS	MT	WA	500m
107	VA222Z	7.925G	1.0	7.75G-8.1G	CW	750	80m			KLR	OS	MT	WA	750m
108	SRX4952	8000M	.04 †	7.750G - 8.250G†	CW	365	.043			KLR	OS	FF	WA	4.0
109	VA215H	8000M	.75 †	7.500G - 8.500G	CW	550	.085			KLR	OS	MT	WA	.63
110	VA297T	8000M	1.0 †	7.500G - 8.500G	CW	800	.085			KLR	OS	MT	WA	.75

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION 1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	TV244E	8050M	.70	7.700G - 8.400G	CW	800	.08			KLR	OS		WA	1.33
2#	TV259E	8050M	1.0 †	7.700G - 8.400G	CW	750	.077			KLR	OS	MT	WA	1.37
3	VA259E	8050M	1.0 †	7.700G - 8.400G	CW	750	.08			KLR	OS	MT	WA	1.38
4#	8V274	8050M	1.3	7.700G - 8.400G	CW	800	.09			KLR	OS	MT	WA	
5#	K3114E	8050M	1.5	7.700G-8.400G	CW	800	80m			KLR	OS	MT	WA	880m
6	VA259P	8050M	1.5 †	7.700G - 8.400G	CW	750	.08			KLR	OS	MT	WA	1.38
7	QKK753	8075M	100m	7.740G-8.400G	CW	300	32m			KLR	OS	MT	CO	
8	QKK1563	8075M	100m	7.750G-8.400G	CW	300	32m			KLR	OS	MT	CO	
9	QKK968	8075M	2.0	7.740G-8.400G	CW	750	85m			KLR	OS	MT	CO	
10	QKK759A	8075M	2.5	7.750G-8.400G	CW	750	85m			KLR	OS	MT	CO	
11	VA259ET	8080M	1.5 †	7.750G - 8.400G	CW	750	.08			KLR	OS	MT	WA	1.38
12#	TV244F	8125M	.70	7.750G - 8.500G	CW	800	.08			KLR	OS	MT	WA	1.32
13#	K3114F	8125M	1.5	7.750G-8.500G	CW	800	80m			KLR	OS	MT	WA	880m
14	VA259F	8130M	1.0 †	7.750G - 8.500G	CW	750	.08			KLR	OS	MT	WA	1.38
15	VA259FT	8250M	1.5 †	8.000G - 8.500G	CW	750	.08			KLR	OS	MT	WA	1.38
16	CV6002	8350M	.035	5.000G - 11.70G	CW	370	.055			KLR	OS	SR	WA	.063
17#	K359	8425M	.09	8.100G - 8.750G	CW	380	.06			KLR	OS	MT	WA	.40
18#	K3079	8425M	90m	8.05G-8.80G	CW	380	50m			KLR	OS	MT	WA	.375
19#	CV2346	8500M	.05	5.000G - 12.00G	CW	370	.055			KLR	OS	SR		.063
20	X13C	8500M	.05 †	7.000G - 10.00G	CW	500	.06			KLR	OS	MT	WA	.37
21#	R5222	8500M	.06	5.000G - 12.00G	CW	370	.055			KLR	OS	SR		.063
22#	R9689	8500M	.06	5.000G - 12.00G	CW	350	.04			KLR	OS	SR		.063
23	VA297U	8500M	1.0 †	8.200G - 8.800G	CW	800	.085			KLR	OS	MT	WA	.75
24	SRX4954	8625M	.04 †	8.250G - 9.000G†	CW	365	.043			KLR	OS	FF	WA	3.7
25	BL843	8750M	.015 †	8.000G - 9.500G†		210	23			KLR		FF	WA	.44
26#	K342	8750M	.045	8.500G - 9.000G	CW	400	.05			KLR	OS	MT	WA	.75
27	BL829	8750M	.40 †	8.000G - 9.500G†		500	70			KLR		FF	WA	.37
28	BLK829	8800M	450m†	8.780G-8.820G	CW	550	75m			KLR	OS	FF	WA	370mΔ
29♦#	TV55F	8800M	450m†			500	60 Ø			KLR	OS	MT	WA	
30#	V55F	8800M	450m†	8.780G-8.820G	CW	500	60m			KLR	OS	MT	WA	500m
31#	VC722A	8800M	500m†	8.800G	CW	500	70m			KLR	OS	FF	WA	370m
32	SRX4592	8800M	.60	8.800G	CW	500	.045			KLR	OS	FF	WA	.50
33	SRX4591	8800M	1.0	8.800G	CW	600	.07			KLR	OS	FF	WA	.50
34	VA273D	8800M	1.0 †	8.500G - 9.100G	CW	750	.08			KLR	OS	MT	WA	
35	QKK1649	8825M	35m	8.625G-9.025G	CW	300	32m			KLR	OS	MT	CO	
36	SRX4597	8.84G	850m	8.78G-8.82G	CW	550	60m			KLR	OS	MT	WA	.530m
37▼#	K3098-6975	8842M	60m	8.800G-8.885G	CW	375	45m			KLR	OS	MT	WA	341m
38#	K391A	8850M	.06	8.800G - 8.900G	CW	400	.05			KLR	OS	MT	WA	.30
39	6390	8875M	60m	6.700G-11.050G	CW	1.25k	20m			KLR	OS	MT	CO	120m
40#	K3095	8900M	90m	8600M-9200M	CW	380	50m			KLR	OS	MT	WA	370m
41#	9V54	8900M	.35	8.200G - 9.600G	CW	500	.07			KLR	OS	MT	WA	
42	2K39	8.9G	1.0	7.5G-10.3G	CW	1.25k	60m			KLR	OS	MT	CO	500m
43	MXK61	8950M	.50	8.750G - 9.150G	CW	490	.07			KLR	OS	MT	CO	
44	QKW1768	8975M	10m	6.95G-11.00G	1.0	1250	23m			KLR	OS	MT	CO	120m
45	QKW1769	8975M	30m	6.95G-11.00G	1.0	1250	23m			KLR	OS	MT	CO	120m
46#	9V10	9000M	.03	8.500G - 10.00G	CW	350	.42			KLR	OS	MT	WA	
47	BT860	9000M	.04	7.000G - 11.00G	CW	1250	.026			KLR	OS	MT	CO	.12
48	BT1315	9000M	.04	7.000G - 11.00G	CW	1000	.026			KLR	OS	MT	CO	.12
49#	K311	9000M	.045	8.500G - 9.500G	CW	400	.05			KLR	OS	MT	WA	.60
50#	K3097	9000M	50m	8740M-9260M	CW	350	28m			KLR	OS	MT	WA	341m
51	BT6390A	9000M	.06	7.000G - 11.00G	CW	1250	.026			KLR	OS	MT	CO	
52	QKK860	9000M	60m	7.000G-11.000G	CW	1.25k	26m			KLR	OS	MT	CO	
53	QKK1315	9000M	60m	7.000G-11.055G	CW	1.25k	26m			KLR	OS	MT	CO	
54	VA297V	9000M	1.0 †	8.500G - 9.500G	CW	800	.085			KLR	OS	MT	WA	.75
55	BLK024	9000M	20	8.500G - 9.600G	CW	300	.45			KLR	OS	MT	WA	.25
56	BT6390B	9032M	35m	7315M-10750M		1250	21m			KLR	OS	MT	CO	
57	203B	9050M	.02 †	8.500G - 9.600G		300	37			KLR			WA	.25
58	203J	9050M	.02 †	8.500G - 9.600G		300	37			KLR			WA	.25
59	JAN6975	9050M	.02 †	8.500G - 9.600G		350	.052			KLR	OS	MT	WA	.25
60♦#	TV217C	9050M	20m†	8.500G-9.600G		250	30			KLR	OS	MT	WA	
61♦#	TV2217H	9050M	20m†	8.500G-9.600G		250	30			KLR	OS	MT	WA	
62	VA203C,G,H,J	9050M	.02 †	8.500G - 9.600G†	CW	350	.037			KLR	OS	MT	WA	.19
63▼	6780/MXK47	9050M	25m†	8.500G-10.000G		200				KLR		MT	WA	
64▼	6975/MXK21	9050M	30m†	8.500G-9.600G		300				KLR	OS	MT	WA	
65♦#	TV217CH	9050M	30m†	8.500G-9.600G		250	30mØ			KLR	OS	MT	WA	
66#	K3111	9050M	35m	8.50G-9.60G	CW	300				KLR	OS	MT		
67	6975	9050M	40m	8.500G-9.600G	CW	6.3	450m			KLR	OS	MT	WA	.31
68	VA201B	9050M	.04 †	8.500G - 9.600G	CW	350	.055			KLR	OS	MT	WA	.37
69#	VA203B	9050M	.045	8.500G - 9.600G	CW	350	.052			KLR	OS	MT	WA	.19
70#	VA203B/6975	9050M	.045	8.500G - 9.600G	CW	350	.045			KLR	OS	MT	WA	.19
71#	VA217C	9050M	.054	8.500G - 9.600G	CW	350	.045			KLR	OS	MT	WA	.37
72#	K351	9050M	.065	8.500G - 9.600G	CW	350	.055			KLR	OS	MT	WA	.40
73	VA265	9050M	.60	8.500G - 9.600G	CW	500	.07			KLR	OS		WA	.37
74♦#	2K25A	9080M	20m†	8.500G-9.660G		300	32			KLR	OS	MT	WA	
75	6940	9080M	.02	8.500G - 9.660G	CW	350	.032			KLR	OS	TT	CO	.50
76	QKK1459	9080M	25m	8.500G-9.660G	CW	300	32m			KLR	OS	MT	CO	
77	2K45	9080M	32m	8.500G-9.660G	CW	300	30m			KLR	OS	TT	CO	180m
78	6116	9080M	32m	8.500G-9.660G	CW	300	32m			KLR	OS	TT	CO	
79	6845	9080M	32m	8.500G-9.660G	CW	300	32m			KLR	OS	TT	CO	
		0M	40m†	8.550G-9.660G	CW	350	32m			KLR	OS	VT	WA	220m
		0M	45m	8.50G-9.66G	CW	330	37m			KLR	OS	MT	WA	143m
		G	400m		CW	500	1.35			KLR	OS	MT	WA	500m
		0M	.75	9.000G - 9.200G	CW	750	.08			KLR	OS	MT	WA	.75
		0M	1.0	7.500G - 10.70G†	CW	750	.08			KLR	OS	MT	WA	.75
		5M	.03	8.702G - 9.548G	CW	330	.037			KLR	OS	MT	CO	
		0M	80m	9.0G-9.4G,32M⍁	CW	400	50m			KLR	OS	MT	WA	352m
		5M	25m	8.500G-10.000G		300	32m			KLR	OS	MT	WA	500m
		0M	.01 †	9.250G	CW	300	.034			KLR	OS	FF	WA	.80
		0M	15m†	8.500G-10.000G		200				KLR	OS	MT		
		0M	15m†	8.500G-10.000G		200				KLR	OS	MT	WA	
		0M	15m†	8.500G-10.000G		200				KLR	OS	MT	WA	
		0M	15m†	8.500G-10.000G		200				KLR	OS	MT		
		0M	.025	8.500G - 10.00G		300	.042			KLR	OS	MT	WA	
		0M	25m	8.500G-10.000G	CW	6.3	1.2			KLR	OS	MT	WA	.44
		0M	25m†	8.5G-10G*;60M⍁	CW	350	42m			KLR	OS	MT	WA	496m
		0M	30m†	8.500G-10.00G		385	74m			KLR		MT		370m
		0M	.04 †	8.500G - 10.00G		350	.042			KLR	OS	MT	WA	.50
98	BL803	9250M	.04 †	8.500G - 10.00G		300	23			KLR			WA	.50
99#	K391	9250M	.04	9.160G - 9.340G	CW	325	.045			KLR	OS	MT	WA	.25
100	6315	9250M	48m	8.500G-10.000G	CW	6.3	1.2			KLR	OS	MT	WA	.37
101	BL847	9250M	.05 †	8.500G - 10.00G		300	32			KLR		MT	WA	.44
102	8848	9.250G	65m†	8.450G-10.05G	CW	400	1.2			KLR	OS	VT	WA	375m
103	JAN8848	9250M	65m†	8.450G-10.50G		400	42m			KLR	OS	MT	WA	370m
104♦#	TV262	9250M	65m†	8.450G-10.050G		350	42			KLR	OS	MT	WA	
105	V262	9250M	65m	8.450G-10.050G		350	42m			KLR	OS	MT	WA	380m
106	6310	9250M	70m	8.500G-10.000G	CW	6.3	1.2			KLR	OS	MT	WA	.37
107	6312	9250M	70m	8.500G-10.000G	CW	300	32m			KLR	OS	MT	WA	440m
108#	6915	9250M	70m	8.5G-10.0G	CW	350	42m			KLR	OS	MT	WA	500m
109	MXK48	9250M	.07	8.500G - 10.00G	CW	350	.042			KLR	OS	MT	WA	
110#	VA270VP6915	9250M	70m	8.5G-10.0G	CW	350	42m			KLR	OS	MT	WA	500m

6116

line 78

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1♦#	X13B	9250M	100m†	7.500G-11.000G		500	60 Ø			KLR	OS	MT	WA	
2	V157	9250M	.20	8.500G - 10.00G	CW	400	.06			KLR	OS	MT	WA	.37
3	MXK32	9250M	.32 †	8.500G - 10.00G	CW	500				KLR	OS		WA	
4	BL825	9250M	500m†	8.50G-10.00G*	CW	500	65			KLR	OS	FF	CO	500m
5♦#	TV58	9250M	500m†	8.500G-10.000G		500	70			KLR	OS	MT	WA	
6#	9V58	9250M	.75	8.500G - 10.00G	CW	525	.075			KLR	OS	MT	WA	.33
7	MXK12	9250M	40 †	8.500G - 10.00G	CW	300				KLR	OS	MT	WA	
8	SRX4772	9.250G	60		CW	300	40			KLR	OS	FF	WA	1.0
9	BL800A	9250M	1500	8.500G - 10.00G	CW	200	.042			KLR	OS		WA	.44
10#	6781	9275M	.035	8.500G - 10.00G	CW	300				KLR	OS			.44
11	6780	9275M	.10	8.500G - 10.00G	CW	300				KLR	OS	MT		
12	SRX4770	9280M	.05	9.280G	CW	300	.025			KLR	OS	MT	WA	.80
13#	K3096	9300M	90m	9000M-9600M	CW	380	50m			KLR	OS	MT	WA	370m
14	V58C	9.3G	500m†	8.5G-10G	CW	500	60m			KLR	OS	MT		
15	BLK002	9300M	1.0 †	9.300G	CW	600	.70			KLR	OS	FF	WA	.50
16	VA318	9.3G	150 †	9.0G-9.6G	5.0m	3.5k	800m			KLR	OS	MT	WA	1.0
17	SRX0926	9.315G	50	9.215G-9.415G	CW	400	50			KLR	OS	MT	WA	500m
18#	K3007	9345M	.04	9.295G - 9.395G	CW	375	.045			KLR	OS	MT	WA	.30
19#	K3094	9345M	40m	9295M-9395M	CW	375	45m			KLR	OS	MT	WA	341m
20#	R9696	9350M	.06	7.000G - 11.70G	CW	350	.055			KLR	OS	SR		.063
21	SRX4955	9375M	.008 †	9.000G - 9.750G†	CW	325	.035			KLR	OS	FF	WA	3.5
22	VA203L	9400M	.012 †	9.250G - 9.550G†	CW	350	.037			KLR	OS	MT	WA	.25
23#	KS9-40	9400M	40m	9.300G-9.500G	CW	350	45m			KLR	OS	MT	WA	287m
24♦#	VA203H	9400M	55m	9.250G-9.560G	CW	300	31			KLR	OS		CO	
25	VA273H	9.4G	1.0	9.1G-9.7G	CW	750	80m			KLR	OS	MT	WA	750m
26	BLK022	9405M	20m†	9.365G-9.445G	CW	350	52m			KLR	OS	MT	WA	500m
27#	K300	9410M	.03	9.320G - 9.500G	CW	400	.05			KLR	OS	MT	WA	.60
28#	K302	9410M	.03	9.320G - 9.500G	CW	400	.05			KLR	OS	MT	WA	.60
29#	KS9-20D	9.4125G	45m	9.325G-9.50G	CW	330	37m			KLR	OS	MT	CO	143m
30	QKW1789	9430M	30m	9.32G-9.54G	1.0	300	25m			KLR	OS	MT	CO	
31#	KS9-20B	9435M	45m	9.32G-9.55G	CW	330	37m			KLR	OS	MT	CO	143m
32#	KS9-40D	9445M	40m	9.38G-9.51G	CW	350	45m			KLR	OS	MT	WA	287m
33#	KS9-40B	9450M	45m	9.35G-9.55G	CW	350	45m			KLR	OS	MT	WA	287m
34#	K3077	9450M	50m	9.35G-9.55G	CW	350	30m			KLR	OS	MT	WA	.310
35#	K3091	9450M	50m	9350M-9550M	CW	350	28m			KLR	OS	MT	WA	341m
36#	K3081	9450M	55m	9350M-9550M	CW	350	28m			KLR	OS	MT	WA	341m
37#	YK1082	9450M	60m	9.300G-9.600G	CW	320	30m			KLR	OS	MT	WA	353m
38#	K3113	9450M	85m	9.300G-9.600G	CW	350	55m			KLR	OS	MT	WA	300m
39	JAN7511	9500M	.02 †	8.500G - 10.50G	CW	330	.037			KLR	OS	MT	WA	.28
40	BLK011	9500M	.02 †	8.500G - 10.50G	CW	300	32			KLR	OS	MT	WA	.50
41	BLK001	9500M	.025 †	8.500G - 10.50G		300	32			KLR		MT	WA	.50
42	SRX424	9500M	.04	8.750G - 10.25G	CW	380	.037			KLR	OS	MT	WA	
43#	K324	9500M	.045	9.000G - 10.00G	CW	400	.05			KLR	OS	MT	WA	.60
44#	K337	9500M	.045	9.000G - 10.00G	CW	400	.05			KLR	OS	MT	WA	.75
45	BL807	9500M	.05 †	8.500G - 10.50G	CW	350	60			KLR	OS	MT	WA	.50
46	SRX0923	9500M	.055	8.500G - 10.50G	CW	300	.034			KLR	OS	MT	WA	.28
47	V290/6314	9500M	90m	8.5G-10.5G*;60MØ	CW	385	74m			KLR	OS	MT	WA	496m
48	6314	9500M	120m	8.500G-10.500G	CW	6.3	1.2			KLR	OS	MT	WA	.44
49	VA272	9500M	.50 †	8.100G - 10.90G†	CW	550	.066			KLR	OS	MT	WA	.50
50	VA297W	9500M	1.0 †	9.200G - 9.800G	CW	800	.085			KLR	OS	MT	WA	.75
51♦#	TV232	9600M	155m†	9.200G-10.000G		350	45			KLR	OS	MT	WA	
52#	VA232	9600M	.265 †	9.200G - 10.00G	CW	375	.04			KLR	OS	MT	WA	.44
53#	K335	9620M	.025	9.555G - 9.685G	CW	400	.05			KLR	OS	MT	WA	.50
54#	KS9-20G	9695M	.025	9.650G - 9.740G	CW	300	.022			KLR	OS	MT	CO	
55#	YK1081	9.7G	20m	9.4G-10G	CW	330	35m			KLR	OS		WA	350m
56	SRX0921	9750M	.125	9.000G - 10.50G	CW	400	.052			KLR	OS	MT	WA	.28
57	BLK005	9750M	.50 †	9.000G - 10.50G	CW	500	70			KLR	OS	MT	WA	.50
58#	VA249	9750M	107	8.500G - 11.00G	CW	350	.026			KLR	OS	MT	WA	.31
59#	V55D	9790M	450m†	9.76G-9.82G	CW	500	66m			KLR	OS	MT	WA	500m
60♦#	TV242	9800M	500m†	8.500G-11.100G		500	66			KLR	OS	MT	WA	
61♦#	TV55E	9830M	450m†			500	60 Ø			KLR	OS	MT	WA	
62#	V55E	9830M	700m	9.81G-9.85G	CW	500	60m			KLR	OS	MT	WA	500m
63	8895	9830M	710m	9.810G-9.850G	CW	6.3	1.2 Ø			KLR	OS	FF	WA	.50
64#	VRX2200A1	9830M	450M	9.800G-9.860G	CW	510	60m			KLR	OS	MT	WA	500m
65♦#	TV55	9850M	200m†	8.200G-11.500G		500	70 Ø			KLR	OS	MT	WA	
66	V55B	9.85G	600m	8.2G-11.5G	CW	500	70m			KLR	OS	MT	WA	500m
67#	VA242	10000M	500m†	8.5G-11.5GΔ	CW	525	66m			KLR	OS	MT	WA	500m
68	VA297X	10000M	1.0 †	9.500G - 10.10G	CW	800	.085			KLR	OS	MT	WA	.75
69	VA297Y	10000M	1.0 †	96.75G - 10.25G	CW	800	.085			KLR	OS	MT	WA	.75
70	JAN6390	10008M	45m†	8.950G-11.065GØ		700	21m			KLR	OS	SR	CC	
71#	10V54	10050M	.30	9.400G - 10.70G	CW	500	.07			KLR	OS	MT	WA	
72	BLK008	10100M	.15 †	10.00G - 10.20G	CW	400	60			KLR	OS	FF	WA	.50
73	BLK007	10100M	1.0 †	10.00G - 10.20G	CW	600	80			KLR	OS	MT	WA	.50
74	SRX4956	10125M	.016 †	9.750G - 10.50G†	CW	325	.035			KLR	OS	FF	WA	3.2
75	MXK22	10125M	.10 †	10.00G - 10.25G	CW	500	.05			KLR	OS	MT	WA	
76♦#	TH2210C	10155M	20m†	10.030G-10.280G		250	37			KLR	OS	MT	WA	
77	MXK33	10200M	.03 †	9.600G - 10.80G	CW	300				KLR	OS		WA	
78♦#	TV210B	10200M	30m†	9.600G-10.800G		300	35			KLR	OS	MT	WA	
79#	VA210B	10200M	.03 †	9.600G - 10.80G	CW	300	.035			KLR	OS	MT	WA	.37
80	QKK1022	10200M	125m	9.500G-10.900G	CW	350	45m			KLR	OS	MT	WA	
81	VRX7207	10.2G	150	8.000G-12.40G	5.0m	4.5k	1.5			KLR		M	WA	
82	VA203K	10250M	.03	10.13G - 10.36G	CW	300	.037			KLR	OS	MT	WA	.19
83	VA210M	10250M	30m	10.050G-10.450G		300	32m			KLR	OS	MT	WA	380m
84#	K3073	10250M	60m	10.10G-10.40G	CW	400	50m			KLR	OS	MT	WA	.375
85♦#	X13	10250M	100m†	8.100G-12.400G		500	60 Ø			KLR	OS	MT	WA	
86#	VC102	10250M	.50 †	9.500G - 11.00G	CW	500	.07			KLR	OS	MT	WA	.37
87	VA273B	10250M	1.0	10.00G - 10.50G	CW	750	.08			KLR	OS	MT	WA	.75
88#	10V13	10300M	.11	8.200G - 12.40G		500	.50			KLR	OS	MT	WA	
89	VA266A	10350M	.23	9.500G - 11.20G	CW	500	.07			KLR	OS	MT	WA	.37
90	BLK012	10370M	.025 †	10.20G - 10.55G	CW	300	32			KLR	OS	MT	WA	
91	VA297Z	10450M	1.0 †	10.20G - 10.70G	CW	800	.085			KLR	OS	MT	WA	.75
92	BLK004	10500M	.50 †	9.800G - 11.20G	CW	600	70			KLR	OS	MT	WA	.50
93	QKK1468	10525M	20m	10.500G-10.550G	CW	300	32m			KLR	OS	FF	CO	
94#	K3074	10525M	27m	10500M-10550M	CW	350	40m			KLR	OS	MT	WA	440m
95	VA218	10525M	.055 †	10.51G - 10.53G	CW	300	.037			KLR	OS	FF	WA	.22
96	VA218B	10525M	.055 †	10.51G - 10.53G	CW	300	.037			KLR	OS	FF	WA	.22
97#	11V18	10525M	.07	10.52G	CW	350	.052			KLR	OS	FF	WA	
98#	K3069	10525M	100m	10513M-10537M	CW	350	45m			KLR	OS	FF	WA	210m
99♦#	TV2218	10525M	500m†			500	66mØ			KLR	OS	MT	WA	
100#	K3076	10600M	60m	10.50G-10.70G	CW	350	50m			KLR	OS	MT	WA	.310
101	VA288A	10600M	.15 †	10.57G - 10.62G	CW	400	.07			KLR	OS	MT	WA	
102#	11V66	10600M	.55	10.400G-10.800G	CW	600	70m			KLR	OS	MT	WA	330m
103	QKK1515	10687M	25m	10.677G-10.697G	CW	300	32m			KLR	OS	FF	CO	
104#	K361B	10688M	.027	10.67G - 10.70G	CW	350	.04			KLR	OS	MT	WA	.50
105#	K357	10690M	.012	10.66G - 10.72G	CW	350	.04			KLR	OS	MT	WA	.50
106#	K3066	10690M	15m	10.66G-10.72G	CW	300				KLR	OS	MT		
107#	K361	10713M	.027	10.70G - 10.72G	CW	350	.04			KLR	OS	MT	WA	.50
108	BLK006	10850M	.50 †	10.00G - 11.70G	CW	600	70			KLR	OS	MT	WA	.50
109♦#	TV2215A	10885M	120m†	10.840G-10.930G		350	40			KLR	OS	MT	WA	
110	BLK020	10925M	40m†	10.923G-10.927G	CW	450	70m			KLR	OS	FF	WA	500m

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1#	TV244E	8050M	.70	7.700G - 8.400G	CW	800	.08			KLR	OS		WA	1.33
2#	TV259E	8050M	1.0 †	7.700G - 8.400G	CW	750	.077			KLR	OS	MT	WA	1.37
3	VA259E	8050M	1.0 †	7.700G - 8.400G	CW	750	.08			KLR	OS	MT	WA	1.38
4#	8V274	8050M	1.3	7.700G - 8.400G	CW	800	.09			KLR	OS	MT	WA	
5#	K3114E	8050M	1.5	7.700G-8.400G	CW	800	80m			KLR	OS	MT	WA	880m
6	VA259P	8050M	1.5 †	7.700G - 8.400G	CW	750	.08			KLR	OS	MT	WA	1.38
7	QKK753	8075M	100m	7.740G-8.400G	CW	300	32m			KLR	OS	MT	CO	
8	QKK1563	8075M	100m	7.750G-8.400G	CW	300	32m			KLR	OS	MT	CO	
9	QKK968	8075M	2.0	7.740G-8.400G	CW	750	85m			KLR	OS	MT	CO	
10	QKK759A	8075M	2.5	7.750G-8.400G	CW	750	85m			KLR	OS	MT	CO	
11	VA259ET	8080M	1.5 †	7.750G - 8.400G	CW	750	.08			KLR	OS	MT	WA	1.38
12#	TV244F	8125M	.70	7.750G - 8.500G	CW	800	.08			KLR	OS	MT	WA	1.32
13#	K3114F	8125M	1.5	7.750G-8.500G	CW	800	80m			KLR	OS	MT	WA	880m
14	VA259F	8130M	1.0 †	7.750G - 8.500G	CW	750	.08			KLR	OS	MT	WA	1.38
15	VA259FT	8250M	1.5 †	8.000G - 8.500G	CW	750	.08			KLR	OS	MT	WA	1.38
16	CV6002	8350M	.035	5.000G - 11.70G	CW	370	.055			KLR	OS	SR	WA	.063
17#	K359	8425M	.09	8.100G - 8.750G	CW	380	.06			KLR	OS	MT	WA	.40
18#	K3079	8425M	90m	8.05G-8.80G	CW	380	50m			KLR	OS	MT	WA	.375
19#	CV2346	8500M	.05	5.000G - 12.00G	CW	370	.055			KLR	OS	SR		.063
20	X13C	8500M	.05 †	7.000G - 10.00G	CW	500	.06			KLR	OS	MT	WA	.37
21#	R5222	8500M	.06	5.000G - 12.00G	CW	370	.055			KLR	OS	SR		.063
22#	R9689	8500M	.06	5.000G - 12.00G	CW	350	.04			KLR	OS	SR		.063
23	VA297U	8500M	1.0 †	8.200G - 8.800G	CW	800	.085			KLR	OS	MT	WA	.75
24	SRX4954	8625M	.04 †	8.250G - 9.000G†	CW	365	.043			KLR	OS	FF	WA	3.7
25	BL843	8750M	.015 †	8.000G - 9.500G†		210	23			KLR		FF	WA	.44
26#	K342	8750M	.045	8.500G - 9.000G	CW	400	.05			KLR	OS	MT	WA	.75
27	BL829	8750M	.40 †	8.000G - 9.500G†		500	70			KLR		FF	WA	.37
28	BLK829	8800M	450m†	8.780G-8.820G	CW	550	75m			KLR	OS	FF	WA	370m△
29♦#	TV55F	8800M	450m†			500	60 ∅			KLR	OS	MT	WA	
30#	V55F	8800M	450m†	8.780G-8.820G	CW	500	60m			KLR	OS	MT	WA	500m
31#	VC722A	8800M	500m†	8.800G	CW	500	70m			KLR	OS	FF	WA	370m
32	SRX4592	8800M	.60	8.800G	CW	500	.045			KLR	OS	FF	WA	.50
33	SRX4591	8800M	1.0	8.800G	CW	600	.07			KLR	OS	FF	WA	.50
34	VA273D	8800M	1.0 †	8.500G - 9.100G	CW	750	.08			KLR	OS	MT	WA	
35	QKK1649	8825M	35m	8.625G-9.025G	CW	300	32m			KLR	OS	MT	CO	
36	SRX4597	8.84G	850m	8.78G-8.82G	CW	550	60m			KLR	OS	MT	WA	.530m
37▼#	K3098-6975	8842M	60m	8.800G-8.885G	CW	375	45m			KLR	OS	MT	WA	341m
38#	K391A	8850M	.06	8.800G - 8.900G	CW	400	.05			KLR	OS	MT	WA	.30
39	6390	8875M	60m	6.700G-11.050G	CW	1.25k	20m			KLR	OS	MT	CO	120m
40#	K3095	8900M	90m	8600M-9200M	CW	380	50m			KLR	OS	MT	WA	370m
41#	9V54	8900M	.35	8.200G - 9.600G	CW	500	.07			KLR	OS	MT	WA	
42	2K39	8.9G	1.0	7.5G-10.3G	CW	1.25k	60m			KLR	OS	MT	CO	500m
43	MXK61	8950M	.50	8.750G - 9.150G	CW	490	.07			KLR	OS	MT	CO	
44	QKW1768	8975M	10m	6.95G-11.00G	1.0	1250	23m			KLR	OS	MT	CO	120m
45	QKW1769	8975M	30m	6.95G-11.00G	1.0	1250	23m			KLR	OS	MT	CO	120m
46#	9V10	9000M	.03	8.500G - 10.00G	CW	350	.42			KLR	OS	MT	WA	
47	BT860	9000M	.04	7.000G - 11.00G	CW	1250	.026			KLR	OS	MT	CO	.12
48	BT1315	9000M	.04	7.000G - 11.00G	CW	1000	.026			KLR	OS	MT	CO	.12
49#	K311	9000M	.045	8.500G - 9.500G	CW	400	.05			KLR	OS	MT	WA	.60
50#	K3097	9000M	50m	8740M-9260M	CW	350	28m			KLR	OS	MT	WA	341m
51	BT6390A	9000M	.06	7.000G - 11.00G	CW	1250	.026			KLR	OS	MT	CO	
52	QKK860	9000M	60m	7.000G-11.000G	CW	1.25k	26m			KLR	OS	MT	CO	
53	QKK1315	9000M	60m	7.000G-11.055G	CW	1.25k	26m			KLR	OS	MT	CO	
54	VA297V	9000M	1.0 †	8.500G - 9.500G	CW	800	.085			KLR	OS	MT	WA	.75
55	BLK024	9000M	20	8.500G - 9.600G	CW	300	.45			KLR	OS	MT	WA	.25
56	BT6390B	9032M	35m	7315M-10750M		1250	21m			KLR	OS	MT	CO	
57	203B	9050M	.02 †	8.500G - 9.600G		300	37			KLR			WA	.25
58	203J	9050M	.02 †	8.500G - 9.600G		300	37			KLR			WA	.25
59	JAN6975	9050M	.02 †	8.500G - 9.600G		350	.052			KLR	OS	MT	WA	.25
60♦#	TV217C	9050M	20m†	8.500G-9.600G		250	30			KLR	OS	MT	WA	
61♦#	TV2217H	9050M	20m†	8.500G-9.600G		250	30			KLR	OS	MT	WA	
62	VA203C,G,H,J	9050M	.02 †	8.500G - 9.600G†	CW	350	.037			KLR	OS	MT	WA	.19
63▼	6780/MXK47	9050M	25m†	8.500G-10.000G		200				KLR		MT	WA	
64▼	6975/MXK21	9050M	30m†	8.500G-9.600G		300				KLR	OS	MT	WA	
65♦#	TV217CH	9050M	30m†	8.500G-9.600G		250	30m∅			KLR	OS	MT	WA	
66#	K3111	9050M	35m	8.50G-9.60G	CW	300				KLR	OS	MT		
67	6975	9050M	40m	8.500G-9.600G	CW	6.3	450m			KLR	OS	MT	WA	.31
68	VA201B	9050M	.04 †	8.500G - 9.600G	CW	350	.055			KLR	OS	MT	WA	.37
69#	VA203B	9050M	.045	8.500G - 9.600G	CW	350	.052			KLR	OS	MT	WA	.19
70#	VA203B/6975	9050M	.045	8.500G - 9.600G	CW	350	.045			KLR	OS	MT	WA	.19
71#	VA217C	9050M	.054	8.500G - 9.600G	CW	350	.045			KLR	OS	MT	WA	.37
72#	K351	9050M	.065	8.500G - 9.600G	CW	350	.055			KLR	OS	MT	WA	.40
73	VA265	9050M	.60	8.500G - 9.600G	CW	500	.07			KLR	OS		WA	.37
74♦#	2K25A	9080M	20m†	8.500G-9.660G		300	32			KLR	OS	MT	WA	
75	6940	9080M	.02	8.500G - 9.660G	CW	350	.032			KLR	OS	TT	CO	.50
76	QKK1459	9080M	25m	8.500G-9.660G	CW	300	32m			KLR	OS	MT	CO	
77	2K45	9080M	32m	8.500G-9.660G	CW	300	30m			KLR	OS	TT	CO	180m
78	6116	9080M	32m	8.500G-9.660G	CW	300	32m			KLR	OS	TT	CO	
79	6845	9080M	32m	8.500G-9.660G	CW	300	32m			KLR	OS	TT	CO	
80▼#	TH2232	9080M	40m†	8.550G-9.660G	CW	350	32m			KLR	OS	VT	WA	220m
81#	2K25	9080M	45m	8.50G-9.66G	CW	330	37m			KLR	OS	MT	WA	143m
82	SRX4594	9.100G	400m		CW	500	1.35			KLR	OS	MT	WA	500m
83	VA273G	9100M	.75	9.000G - 9.200G	CW	750	.08			KLR	OS	MT	WA	.75
84	VA297	9100M	1.0	7.500G - 10.70G†	CW	750	.08			KLR	OS	MT	WA	.75
85	723A/B	9125M	.03	8.702G - 9.548G	CW	330	.037			KLR	OS	MT	CO	
86▼#	K3118	9200M	80m	9.0G-9.4G,32M⌀	CW	400	50m			KLR	OS	MT	WA	352m
87	V270	9225M	25m	8.500G-10.000G		300	32m			KLR	OS	MT	WA	500m
88	SRX4771	9250M	.01 †	9.250G	CW	300	.034			KLR	OS	FF	WA	.80
89▼	6310/MXK14	9250M	15m†	8.500G-10.000G		200				KLR	OS	MT		
90▼	6312/MXK15	9250M	15m†	8.500G-10.000G		200				KLR	OS	MT	WA	
91▼	6314/MXK16	9250M	15m†	8.500G-10.000G		200				KLR	OS	MT	WA	
92▼	6781/MXK11	9250M	15m†	8.500G-10.000G		200				KLR	OS	MT		
93	JAN6310	9250M	.025	8.500G - 10.00G		300	.042			KLR	OS	MT	WA	
94	6316	9250M	25m	8.500G-10.000G	CW	6.3	1.2			KLR	OS	MT	WA	.44
95	V270/6312	9250M	25m†	8.5G-10G*;60M⌀	CW	350	42m			KLR	OS	MT	WA	496m
96	JAN6315	9250M	30m†	8.500G-10.00G		385	74m			KLR		MT		370m
97	JAN6781	9250M	.04 †	8.500G - 10.00G		350	.042			KLR	OS	MT	WA	.50
98	BL803	9250M	.04 †	8.500G - 10.00G		300	23			KLR			WA	.50
99#	K391	9250M	.04	9.160G - 9.340G	CW	325	.045			KLR	OS	MT	WA	.25
100	6315	9250M	48m	8.500G-10.000G	CW	6.3	1.2			KLR	OS	MT	WA	.37
101	BL847	9250M	.05 †	8.500G - 10.00G		300	32			KLR		MT	WA	.44
102	8848	9.250G	65m†	8.450G-10.05G	CW	400	1.2			KLR	OS	VT	WA	375m
103	JAN8848	9250M	65m†	8.450G-10.50G		400	42m			KLR	OS	MT	WA	370m
104♦#	TV262	9250M	65m†	8.450G-10.050G		350	42			KLR	OS	MT	WA	
105	V262	9250M	65m	8.450G-10.050G		350	42m			KLR	OS	MT	WA	380m
106	6310	9250M	70m	8.500G-10.000G	CW	6.3	1.2			KLR	OS	MT	WA	.37
107	6312	9250M	70m	8.500G-10.000G	CW	300	32m			KLR	OS	MT	WA	440m
108#	6915	9250M	70m	8.5G-10.0G	CW	350	42m			KLR	OS	MT	WA	500m
109	MXK48	9250M	.07	8.500G - 10.00G	CW	350	.042			KLR	OS	MT	WA	
110#	VA270VP6915	9250M	70m	8.5G-10.0G	CW	350	42m			KLR	OS	MT	WA	500m

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

6116

line 78

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

										DESCRIPTION				
LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	QKK1583	10925M	50m	10.915G-10.935G	CW	300	32m			KLR	OS	FF	WA	
2#	11V651	10950M	.55	10.70G - 11.20G	CW	600	.07			KLR	OS	MT	WA	
3	SRX4957	11000M	.008 †	10.50G - 11.50G†	CW	325	.035			KLR	OS	FF	WA	3.0
4	BLK010	11000M	.05 †	9.000G - 13.00G		300	50			KLR		MT	WA	.44
5	7829A	11000M	.06 †	10.95G - 11.05G	CW	350	.035 Ø			KLR	AM		WA	.31
6	JAN7829A	11000M	60m†	10.95G - 11.05G		350	35m			KLR	OS	MT	WA	
7	BL849	11000M	.07 †	10.50G - 11.50G		400	68			KLR		MT	WA	.44
8#	11V54	11100M	70m	10.450G-11.800G	CW	300	27m			KLR	OS	MT	WA	450m
9	V53B/C	11200M	40m	10.700G-11.700G		500	66m			KLR	OS	MT	WA	380m
10	QKK826	11200M	100m	10.700G-11.700G	CW	400	45m			KLR	OS	MT	CO	
11	VRX7204A	11.200G	100m	10.700G-11.700G	CW	800	40m			KLR	OS	MT	WA	1.0
12#	11V53A	11200M	.25	10.70G - 11.70G	CW	500	.07			KLR	OS	MT	WA	
13#	11V54A	11200M	.25	10.70G - 11.70G	CW	500	.07			KLR	OS	MT	WA	
14	VA237E	11200M	.25 †	10.70G - 11.70G	CW	800	.04			KLR	OS	MT	WA	1.0
15#	11V64	11200M	.30	10.70G - 11.70G	CW	527	.07			KLR	OS	MT	WA	
16	MXK54	11200M	.40	10.70G - 11.70G	CW	550	.075			KLR	OS	MT	WA	
17♦#	TV2246A	11200M	400m†			500	66mØ			KLR	OS	MT	WA	
18	VRX7204B	11.200G	400m	10.700G-11.700G	CW	700	60m			KLR	OS	MT	WA	1.1
19	QKK878	11200M	500m	10.700G-11.700G	CW	750	85m			KLR	OS	MT	CO	
20	QKK1235	11200M	1.0	10.700G-11.700G	CW	750	85m			KLR	OS	MT	CO	
21	VA237B	11200M	1.0 †	10.70G - 11.70G	CW	1250	.07			KLR	OS	MT	WA	1.0
22	VA287A	11200M	1.0 †	10.70G - 11.70G		800	.09			KLR	OS	VT	WA	1.0
23	BL814	11350M	.15 †	10.40G - 12.30G	CW	400	70			KLR	OS			.44
24	V154	11350M	.15	10.50G - 12.20G	CW	400	.07			KLR	OS	MT	WA	.37
25♦#	TV2246X	11400M	400m†			500	66mØ			KLR	OS	MT	WA	
26#	11V652	11450M	.55	11.20G - 11.70G	CW	600	.07			KLR	OS	MT	WA	
27♦#	TV2246B	11600M	400m†			500	66mØ			KLR	OS	MT	WA	
28♦#	TV2212A	11700M	500m†	10.700G-12.700G		750	80mØ			KLR	OS	MT	WA	
29♦#	TV2212B	11700M	500m†	10.700G-12.700G		750	80mØ			KLR	OS	MT	WA	
30▼#	TV2211A	11925M	750m†	10.500G-13.350G		750	80mØ			KLR	OS	MT	WA	
31▼#	TV2211B	11925M	750m†	10.500G-13.350G		750	80mØ			KLR	OS	MT	WA	
32▼#	TV2211C	11925M	750m†	10.500G-13.350G		750	80mØ			KLR	OS	MT	WA	
33▼#	TV2211D	11925M	750m†	10.500G-13.350G		750	80mØ			KLR	OS	MT	WA	
34	QKK869	11950M	100m	11.700G-12.200G	CW	400	45m			KLR	OS	MT	CO	
35	QKK879	11950M	650m	11.700G-12.200G	CW	750	85m			KLR	OS	MT	CO	
36	VA287B	11950M	1.0 †	11.70G - 12.20G		800	.09			KLR	OS	VT	WA	1.0
37	VA287	11975M	1.0 †	10.70G - 13.25G†	CW	750	.075			KLR	OS	MT	WA	1.0 Δ
38#	LD561	12070M	.15	11.70G - 12.44G	CW	500	.07			KLR	OS	MT	WA	
39#	12V66	12100M	.55	11.70G - 12.50G	CW	600	.07			KLR	OS	MT	WA	
40#	12V25	12200M	.20	11.60G - 12.80G	CW	500	.07			KLR	OS	MT	WA	
41#	12V26	12.2G	200m	11.6G-12.8G	CW	500	70m			KLR	OS	MT	WA	
42	FAA237D	12200M	200m†	11.70G-12.70G	CW	750	30m			KLR	OS	MT	WA	1.0
43	VA237D	12200M	.20 †	11.70G - 12.70G	CW	750	.03			KLR	OS	MT	WA	1.0
44	BT237D	12200M	250m	11700M-12700M		800	40m			KLR	OS	MT	WA	
45♦#	TV2216A	12200M	1.0 †	10.700G-13.700G		750	80mØ			KLR	OS	MT	WA	
46♦#	TV2216B	12200M	1.0 †	10.700G-13.700G		750	80mØ			KLR	OS	MT	WA	
47♦#	TV2216C	12200M	1.0 †	10.700G-13.700G		750	80mØ			KLR	OS	MT	WA	
48	VA237A	12200M	1.0 †	11.70G - 12.70G	CW	1250	.07			KLR	OS	MT	WA	1.0
49#	LD656	12350M	.20	12.00G - 12.70G	CW	525	.07			KLR	OS	MT	WA	
50	QKK822	12450M	100m	12.200G-12.700G	CW	400	45m			KLR	OS	MT	CO	
51	QKK978	12450M	500m	12.200G-12.700G	CW	750	85m			KLR	OS	MT	CO	
52	QKK833A	12450M	1.00	12.20G-12.70G	CW	750	85m			KLR	OS	MT	CO	
53	VA287C	12450M	1.0 †	12.20G - 12.70G		800	.09			KLR	OS	VT	WA	1.0
54	VA310	12500M	1.2	10.00G - 15.00G†	CW	800	.10			KLR	OS	MT	WA	.44
55#	V39B	12750M	20m†	10.00G-15.50G	CW	750	34m			KLR	OS	MT	WA	120m
56	VA92H	12800M	.175	12.00G - 13.60G	CW	600	.066			KLR	OS	MT	WA	
57#	VC103B	12900M	300m†	12.89G-12.91G	CW	525	66m			KLR	OS	MT	WA	500m
58♦#	TV246	12950M		11.900G-14.000G						KLR	OS	MT	WA	
59	VA287D	12950M	1.0 †	12.70G - 13.20G	CW	750	.085			KLR	OS	MT	WA	1.0
60	QKK877	12963M	100m	12.700G-13.220G	CW	400	45m			KLR	OS	MT	CO	
61	V39B/C	13000M	20m	10.500G-15.500G		650	34m			KLR	OS	MT	WA	120m
62#	EM1114A,C	13000M	200m†	12.98G-13.02G	CW	400	50m			KLR	OS	FF	WA	370m
63#	13V64	13000M	.30	12.50G - 13.50G	CW	550	.07			KLR	OS	MT	WA	
64#	13V66/LD932	13000M	.55	12.50G - 13.50G	CW	600	.070			KLR	OS	MT	WA	.46
65♦#	TV2226	13000M	900m†	12.800G-13.200G		750	90mØ			KLR	OS	MT	WA	
66	VA237F	13200M	.25 †	12.70G - 13.70G	CW	800	.04			KLR	OS	MT	WA	1.0
67	VA240C	13200M	.50	12.40G - 14.00G	CW	800	.03			KLR	OS	MT	WA	.25
68	VA237C	13200M	1.0 †	12.70G - 13.70G	CW	1250	.07			KLR	OS	MT	WA	1.0
69	VA246	13250M	.45	11.00G - 15.50G†	CW	500	.065			KLR	OS	MT	WA	.37
70	MKK12	13300M	.015	13.30G	CW	500				KLR	AML			
71	MKK37	13300M	1.0	13.30G	CW	1650	.032			KLR	OS	FF	WA	
72	MKK22	13300M	2.0	13.30G	CW	2200				KLR	OS	FF	CO	
73▼	MKK16	13300M	5.0 †	8.300G-18.300G	CW	2250	50m			KLR#	AML			
74	QKK873	13313M	100m	13.225G-14.400G	CW	400	45m			KLR	OS	MT	CO	
75#	VC103D	13325M	90m†	13.275G-13.375G	CW	350	30m			KLR	OS	MT	WA	500m
76#	VC103A	13325M	290m†	13.275G-13.375G	CW	500	70m			KLR	OS	MT	WA	500m
77#	VC103C	13325M	300m†	13.315G-13.335G	CW	525	66m			KLR	OS	MT	WA	500m
78#	VC103E	13325M	.30 †	13.27G - 13.37G	CW	500	.07			KLR	OS	MT	WA	.50
79	BL844	13325M	.50 †	13.32G - 13.33G	CW	550	70			KLR	OS	FF	WA	.44
80	VA286	13400M	.30 †	12.40G - 14.40GØ	CW	575	.066			KLR	OS	MT	WA	.31
81	8467	13450M	.14 †	12.40G - 14.50G	CW	625				KLR	OS	MT	WA	.44
82	JAN8467	13450M	.14 †	12.40G - 14.50G	CW	625	.066			KLR		MT	WA	
83	VA92B	13.45G	140m†	12.4G-14.5G	CW	600	65m			KLR	OS	MT	WA	440m
84	MKK29	13500M	.04	13.00G - 14.00G	CW	300	.045			KLR	OS	MT	WA	
85#	13V92	13500M	.35	12.40G - 14.50G	CW	625	.07			KLR	OS	MT	WA	
86#	EM1114,B	13900M	200m†	13.88G-13.92G	CW	400	50m			KLR	OS	FF	WA	370m
87	VA240	14450M	.275	12.40G - 18.50G†	CW	750	.028			KLR	OS	FF	WA	.25
88	QKK1399	14760M	25m	14.330G-15.190G	CW	400	32m			KLR	OS	MT	CO	
89#	15V66	14900M	.45	14.40G - 15.40G	CW	680	.075			KLR	OS	MT	WA	.309
90	VA329	14900M	1.5 †	14.40G - 15.40G	CW	750	.085			KLR	OS	MT	WA	.75
91#	R9625	15000M	.10	13.50G - 16.50G	CW	2200	.015			KLR	OS	MT	WA	.91
92	EM1149	15000M	1.0 †	12.00G - 18.00G†	CW	800	.10			KLR	OS	MT	WA	.44
93	VRU7208	15.0G	100	12.30G-18.00G	5.0m	4.5k	1.2			KLR		M	WA	
94	X12	15.2G	100m	12.4G-18G	CW	600	65m			KLR	OS	MT	WA	370m
95#	R9676	15200M	.30	12.40G - 18.00G†	CW	2500	.02			KLR	OS	MT	WA	.91
96	VA311	15750M	.02 †	13.50G - 18.00G†	CW	300	.03			KLR	OS	MT	WA	.22
97	MKK25	15750M	.10	14.00G - 17.50G	CW	600	.06			KLR	OS	MT	WA	
98	VA92	15750M	.10	14.00G - 17.50G	CW	600	.06			KLR	OS	MT	WA	.44
99	JAN8759	16.000G	20m†	15.800G-16.200G	CW	350	45m			KLR	OS	MT	WA	
100	SRU210	16000M	.02	15.80G - 16.20G	CW	300	.035			KLRΔ	OS	MT	WA	.40
101	VA94B	16000M	.035	15.80G - 16.20G	CW	300	.045			KLR	OS	MT	WA	.56
102	SRU55A/B	16000M	.15 †	15.00G - 17.00G	CW	300	.035			KLRΔ	OS	MT	WA	.28
103	SRU216	16000M	.15 †	15.00G - 17.00G	CW	300	.035			KLR	OS	MT	WA	.40
104	SRU223	16000M	.15 †	15.00G - 17.00G	CW	350	.035			KLRΔ	OS	MT	WA	.40
105	VA308	16000M	.25 †	14.00G - 18.00G†	CW	800	.043			KLR	OS	MT	WA	.25
106	VA309	16000M	.30 *	14.00G - 18.00G†	CW	550	.04			KLR	OS	MT	WA	.25
107	JAN6995	16500M	20m	16.00G-17.00G	CW	350	45m			KLR		MT	WA	
108	VA275B/C	16500M	25m	16.00G-17.00G		400	16m			KLR	OS	MT	WA	380m
109	SRU4430	16500M	.03 †	16.00G - 17.00G	CW	350	.027 Ø			KLR	OS	MT	WA	.31
110	MKK26	16500M	.04	16.00G - 17.00G	CW	300	.045			KLR	OS	MT	WA	

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUT PUT	WEIGHT (lb)
1	VA94	16.5G	40m	16G-17G	CW	300	45m			KLR	OS	MT	WA	250m
2	SRU4195	16500M	.06	16.30G - 16.70G	CW	425	.055			KLR	OS	MT	WA	.40
3	SRU2161	16500M	.08	16.00G - 17.00G	CW	300	.028			KLR	OS	MT	WA	.34
4#	R9626	16500M	.10	15.00G - 18.00G	CW	2200	.015			KLR	OS	MT	WA	.91
5	SRU419	16500M	.15	15.50G - 17.50G	CW	475	.07			KLR	OS	MT	WA	.40
6	SRU4191	16500M	.28	15.50G - 17.50G	CW	475	.06			KLR	OS	MT	WA	.40
7▼	MKK26A	16530M	15m†	16.000G-17.060G		300				KLR	AM		WA	
8	SRU4192	16750M	.32	15.50G - 18.00G*	CW	475	.06			KLR	OS	FF	WA	.40
9	SRU4431	16850M	.02 †	16.50G - 17.20G	CW	500	.03			KLR	OS	VT	WA	.28
10	VA275D	17000M	.02 †	16.00G - 18.00G	CW	300	.016			KLR	OS	MT	WA	.37
11#	K3080	17000M	50m	16.5G-17.5G	CW	330				KLR	OS	MT		
12#	17V10	17000M	.10	15.50G - 18.50G	CW	2200	.014			KLR	OS	MT	WA	.882
13	VA275A	17500M	.20 †	17.00G - 18.00G	CW	750	.035			KLR	OS	MT	WA	.37
14	V40B/C	18000M	20m	15.000G-21.000G		750	40m			KLR	OS	MT	WA	120m
15	VA282D	18000M	.10	18.00G	CW	600	.019			KLR	OS	FF	WA	.34
16	VA282AD	18000M	.50 †	18.00G	CW	800	.03			KLR	OS	FF	WA	.34
17	VA253	18500M	.15	15.00G - 22.00G†	CW	900	.028			KLR	OS	MT	WA	.22
18#	20V10	20000M	.15	18.00G - 22.00G	CW	2200	.014			KLR	OS	MT	WA	
19#	R9622	20250M	.10	18.00G - 22.50G	CW	2200	.015			KLR	OS	MT	WA	1.37
20#	R9621	22000M	.10	20.00G - 24.00G	CW	2200	.015			KLR	OS	MT	WA	1.37
21#	22V10	22000M	.15	20.00G - 24.00G	CW	2200	.014			KLR	OS	MT	WA	
22	SRK4642	22000M	.25	21.90G - 22.10G	CW	475	.055			KLR	OS	MT	WA	.30
23	EM1148A	22250M	.05 †	22.25G		400	.03			KLR		FF		
24	VA241	22250M	150m	18.000G-26.500G		850	34m			KLR	OS	MT	WA	250m
25	EM1138	22250M	.24 *	18.00G - 26.50G†	CW	550	.036			KLR	OS	MT	WA	.25
26#	R9675	22250M	.25	18.00G - 26.50G†	CW	2500	.02			KLR	OS	MT	WA	.91
27	EM1188	22250M	.70	18.00G - 26.50GØ		900	.06			KLR	OS	MT	WA	.25
28	VA282	22500M	.25	18.00G - 26.50G†	CW	800	.035			KLR	OS	FF	WA	.34
29	VRK7212	22.5G	40	18.00G-26.50G	5.0m	4.0k	400m			KLR		M	WA	
30#	VA98J	23850M	.10 †	23.60G - 24.00G	CW	400	.04			KLR	OS	MT	WA	.25
31	JAN8901	24.000G	100m†	23.600G-24.400G		500				KLR		MT	WA	
32	VA98	24000M	100m	23.600G-24.400G		375	40m			KLR	OS	MT	WA	250m
33#	VA98M	24000M	.10 †	23.60G - 24.40G	CW	400	.04			KLR	OS	MT	WA	.25
34#	24V10A	24000M	.25	22.00G - 26.00G	CW	2200	.014			KLR	OS	MT	WA	
35#	24V11	24000M	.60	22.00G - 26.00G	CW	1800	.04			KLR	OS	MT	WA	
36#	R9602	24250M	.085	22.50G - 26.00G	CW	2200	.015			KLR	OS	MT	WA	1.37
37	VA282E	25600M	.03	25.60G	CW	500	.016			KLR	OS	FF	WA	.34
38	R9729	27500M	.06	26.00G - 29.00G	CW	2200	.015			KLR	OS	MT	WA	.813
39#	28V12	28G	650m	26G-30G	CW	2.4k	38m			KLR	OS	MT	WA	
40#	R9518	30000M	.08	27.80G - 32.20G	CW	2200	.015			KLR	OS	MT	WA	1.37
41#	30V10	30G	90m	28G-32G	CW	2.2k	14m			KLR	OS	MT	WA	
42#	30V11	30000M	.20	28.00G - 32.00G	CW	2200	.03			KLR	OS	MT	WA	
43#	30V12	30G	650m	28G-32G	CW	2.4k	38m			KLR	OS	MT	WA	
44	VA312	30750M	.10 †	26.50G - 35.00G†	CW	550	.04			KLR	OS	MT	WA	.25
45	VA283	30750M	.20 †	26.50G - 35.00GØ	CW	900	.06			KLR	OS	MT	WA	.40
46	VA322	30750M	.50 †	26.50G - 35.00GØ	CW	900	.055			KLR	OS		WA	.44
47	VA313	30750M	.55 *	26.50G - 35.00G†	CW	800	.045			KLR	OS	MT	WA	.25
48	VA303	30750M	15 †	26.50G - 33.00G		3000				KLR	OS	MT	WA	.38
49#	R9674	32000M	.20	26.50G - 37.50G†	CW	2500	.02			KLR	OS	MT	WA	.91
50#	33V10	33G	40m	30G-35G	CW	2.0k	12m			KLR	OS	MT	WA	
51	VA97B	33300M	.01 †	32.60G - 34.00G	CW	400	.05			KLR	OS	MT	WA	.18
52	55335	33500M	150m	31.00G-36.00G	CW	2500	18m			KLR	OS	MT	WA	3.7
53#	K3039	34000M	.03 †	32.00G - 36.00GØ	CW	2200	.02			KLR	OS	MT	WA	.63
54#	K3038	34000M	.25 †	31.00G - 37.00GØ	CW	2700	.03			KLR	OS	MT	WA	.63
55#	34V12	34G	650m	32G-36G	CW	2.4k	38m			KLR	OS	MT	WA	
56#	35V10	34500M	.07	32.00G - 37.00G	CW	2200	.014			KLR	OS	MT	WA	.882
57#	35V11	34.5G	250m	32G-37G	CW	2.2k	30m			KLR	OS	MT	WA	1.32
58	SRV5390	34500M	3.0	34.00G - 35.00G	.002	1500	.20			KLR	OS	MT	WA	.10
59	VA97	34800M	.018	34.00G - 35.60G	CW	425	.05 Ø			KLR	OS	MT	WA	.19
60	EM1138M	34800M	20m	34.500G-35.100G		350	30m			KLR	OS	MT	WA	
61#	K3035	34850M	.03	34.10G - 35.60G	CW	2100	.017			KLR	OS	MT	WA	.60
62#	CV6001	34890M	.08	34.20G - 35.58G	CW	2200	.012			KLR	OS	MT	WA	.813
63#	R5146	34890M	.08	34.20G - 35.58G	CW	2200	.012			KLR	OS	MT	WA	.813
64#	R9546	34900M	.06	32.30G - 37.50G	CW	2200	.015			KLR	OS	MT	WA	1.37
65	SRV4400	35000M	.075	30.00G - 40.00GØ	CW	550	.055			KLR	OS	MT	WA	.37
66	SRV5250	35G	100m	34.5G-35.5G	CW	500	40m			KLR	OSC	MT	WA	500m
67#	35V12	35G	700m	33G-37G	CW	2.4k	38m			KLR	OS	MT	WA	
68#	36V12	36G	700m	34G-38G	CW	2.4k	38m			KLR	OS	MT	WA	
69#	R9521	37650M	.06	35.30G - 40.00G	CW	2200	.015			KLR	OS	MT	WA	1.37
70#	VRQ2100A1	38000M	150m	33.00G-43.00G	CW	2550	27m			KLR	OS	MT	WA	.88
71	VA302	38500M	.40 †	35.00G - 42.00G†	CW	1000	.06			KLR	OS	MT	WA	.34
72#	40V10	39500M	.08	37.00G - 42.00G	CW	2500	.03			KLR	OS	MT	WA	
73#	40V12	40G	530m	37G-42G	CW	2.4k	38m			KLR	OS	MT	WA	
74#	45V10	45000M	.10	42.00G - 48.00G	CW	2500	.03			KLR	OS	MT	WA	
75#	45V12	45G	275m	42G-48G	CW	2.6k	43m			KLR	OS	MT	WA	
76#	47V10	47000M	.07	43.00G - 51.00G	CW	2500	.03			KLR	OS	MT	WA	
77#	47V11	47000M	.15	43.00G - 51.00G	CW	2500	.03			KLR	OS	MT	WA	
78#	47V12	47G	250m	43G-51G	CW	2.6k	30m			KLR	OS	MT	WA	
79#	50V10	50G	50m	46G-54G	CW	2.7k	30m			KLR	OS	MT	WA	1.32
80#	50V11	50000M	150m	46000M-54000M	CW	2700	30m			KLR	OS	MT	WA	1.32
81#	VRE2102A1	51000M	350m†	50G-52G	CW	2550	27m			KLR	OS	MT	WA	630m
82#	VRE2105A1	53G	10m†	50G-56G	CW	1.45k	11m			KLR	OS	MT	WA	630m
83#	VRE2103A1	53000M	150m†	50G-56G	CW	2550	27m			KLR	OS	MT	WA	630m
84#	VRE2103B1	53000M	150m†	50G-56G	CW	2550	27m			KLR	OS	MT	WA	810m
85#	VRE2102A2	53000M	350m†	52G-54G	CW	2550	27m			KLR	OS	MT	WA	630m
86#	55V10	55000M	.06	52.00G - 58.00G	CW	2700	.03			KLR	OS	MT	WA	
87#	55V11	55000M	.12	52.00G - 58.00G	CW	2700	.03			KLR	OS	MT	WA	
88#	VRE2102A3	55000M	350m†	54G-56G	CW	2550	27m			KLR	OS	MT	WA	630m
89#	VRE2102A4	57000M	350m†	56G-58G	CW	2550	27m			KLR	OS	MT	WA	630m
90#	VRE2105A2	58G	10m†	55G-61G	CW	1.45k	11m			KLR	OS	MT	WA	630m
91#	VRE2103B2	58000M	150m†	55G-61G	CW	2550	27m			KLR	OS	MT	WA	810m
92#	VRE2103A2	59000M	150m†	56G-62G	CW	2550	27m			KLR	OS	MT	WA	630m
93#	VRE2102A5	59000M	350m†	58G-60G	CW	2550	27m			KLR	OS	MT	WA	630m
94#	60V10	60000M	.06	57.00G - 63.00G	CW	2700	.03			KLR	OS	MT	WA	
95#	60V12	60G	150m	57G-63G	CW	2.6k	30m			KLR	OS	MT	WA	
96#	VRE2102A6	61000M	350m†	60G-62G	CW	2550	27m			KLR	OS	MT	WA	630m
97#	VRE2105A3	63G	10m†	60G-66G	CW	1.45k	11m			KLR	OS	MT	WA	630m
98#	VRE2103B3	63000M	150m†	60G-66G	CW	2550	27m			KLR	OS	MT	WA	810m
99#	VRE2102A7	63000M	350m†	62G-64G	CW	2550	27m			KLR	OS	MT	WA	630m
100▼#	KA651	63500M	250m	60.000G-67.000G		2700	30m			KLR	OS	MT	WA	1.3
101#	VRE2103A3	65000M	150m†	62G-68G	CW	2550	27m			KLR	OS	MT	WA	630m
102#	VRE2102A8	65000M	350m†	64G-66G	CW	2550	27m			KLR	OS	MT	WA	630m
103#	VRE2101A	65000M	500m†	50G-80G△	CW	2550	27m			KLR	OS	MT	WA	630m
104#	VRE2102A9	67000M	350m†	66G-68G	CW	2550	27m			KLR	OS	MT	WA	630m
105#	VRE2105A4	68G	10m†	65G-71G	CW	1.45k	11m			KLR	OS	MT	WA	630m
106#	VRE2103B4	68000M	150m†	65G-71G	CW	2550	27m			KLR	OS	MT	WA	810m
107#	70V10	69000M	.06	65.00G - 73.00G	CW	2800	.03			KLR	OS	MT	WA	
108#	VRE2102A10	69000M	350m†	68G-70G	CW	2550	27m			KLR	OS	MT	WA	630m
109#	VRE2105A5	70G	10m†	67G-73G	CW	1.45k	11m			KLR	OS	MT	WA	630m
110#	70V11A	70000M	.125	65.00G - 75.00G	CW	2800	.03			KLR	OS	MT	WA	

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	VRE2103A6	70000M	150m†	67G-73G	CW	2550	27m			KLR	OS	MT	WA	630m
2#	VRE2102A16	70000M	350m†	69G-71G	CW	2550	27m			KLR	OS	MT	WA	630m
3▼#	KA701A	70000M	400m	68.000G-72.000G		2700	30m			KLR	OS	MT	WA	1.3
4#	VRE2103A4	71000M	150m†	68G-74G	CW	2550	27m			KLR	OS	MT	WA	630m
5#	VRE2102A11	71000M	350m†	70G-72G	CW	2550	27m			KLR	OS	MT	WA	630m
6#	VRE2105A6	73G	10m†	70G-76G	CW	1.45k	11m			KLR	OS	MT	WA	630m
7#	VRE2103B5	73000M	150m†	70G-76G	CW	2550	27m			KLR	OS	MT	WA	810m
8#	VRE2102A12	73000M	350m†	72G-74G	CW	2550	27m			KLR	OS	MT	WA	630m
9#	VRE2102A13	75000M	350m†	74G-76G	CW	2550	27m			KLR	OS	MT	WA	630m
10#	VRE2105A7	77G	10m†	74G-80G	CW	1.45k	11m			KLR	OS	MT	WA	630m
11#	VRE2103A5	77000M	150m†	74G-80G	CW	2550	27m			KLR	OS	MT	WA	630m
12#	VRE2103B6	77000M	150m†	74G-80G	CW	2550	27m			KLR	OS	MT	WA	810m
13#	VRE2102A14	77000M	350m†	76G-78G	CW	2550	27m			KLR	OS	MT	WA	630m
14#	VRE2102A15	79000M	350m†	78G-80G	CW	2550	27m			KLR	OS	MT	WA	630m
15#	80V10A	80000M	.04	75.00G - 85.00G	CW	2700	.03			KLR	OS	MT	WA	
16#	80V11	80000M	150m	75000M-85000M	CW	2800	30m			KLR	OS	MT	WA	1.32
17#	VRB2112A1	81000M	200m†	80G-82G	CW	2550	27m			KLR	OS	MT	WA	630m
18#	VRB2115A1	83000M	10m†	80G-86G	CW	1650	15m			KLR	OS	MT	WA	630m
19#	VRB2113A1	83000M	75m†	80G-86G	CW	2550	27m			KLR	OS	MT	WA	630m
20#	VRB2113B1	83000M	75m†	80G-86G	CW	2550	27m			KLR	OS	MT	WA	1.0
21#	VRB2112A2	83000M	200m†	82G-84G	CW	2550	27m			KLR	OS	MT	WA	630m
22#	VRB2112A3	85000M	200m†	84G-86G	CW	2550	27m			KLR	OS	MT	WA	630m
23#	VRB2112A4	87000M	200m†	86G-88G	CW	2550	27m			KLR	OS	MT	WA	630m
24#	VRB2115A2	89000M	10m†	86G-92G	CW	1650	15m			KLR	OS	MT	WA	630m
25#	VRB2113A2	89000M	75m†	86G-92G	CW	2550	27m			KLR	OS	MT	WA	630m
26#	VRB2113B2	89000M	75m†	86G-92G	CW	2550	27m			KLR	OS	MT	WA	1.0
27#	VRB2112A5	89000M	200m†	88G-90G	CW	2550	27m			KLR	OS	MT	WA	630m
28#	90V10A	90000M	.03	85.00G - 95.00G	CW	2700	.03			KLR	OS	MT	WA	
29#	90V11	90G	100m	85G-95G	CW	2.7k	25m			KLR	OS	MT	WA	
30#	VRB2112A6	91000M	200m†	90G-92G	CW	2550	27m			KLR	OS	MT	WA	630m
31#	VRB2112A7	93000M	200m†	92G-94G	CW	2550	27m			KLR	OS	MT	WA	630m
32#	VRB2115A3	95000M	10m†	92G-98G	CW	1650	15m			KLR	OS	MT	WA	630m
33#	VRB2113A3	95000M	75m†	92G-98G	CW	2550	27m			KLR	OS	MT	WA	630m
34#	VRB2113B3	95000M	75m†	92G-98G	CW	2550	27m			KLR	OS	MT	WA	1.0
35#	VRB2112A8	95000M	200m†	94G-96G	CW	2550	27m			KLR	OS	MT	WA	630m
36#	VRB2111A	95000M	300m†	80G-110G△	CW	2550	27m			KLR	OS	MT	WA	630m
37#	VKB2415C	95000M	1.0 †	80.00G-110.0G	CW	7500	100m			KLR	OS	MT	WA	15
38#	VKB2415A	95000M	2.0 †	80.00G-110.0G	CW	7500	100m			KLR	OS	FF	WA	10
39#	VKB2415B	95000M	2.0 †	80.00G-110.0G	CW	7500	100m			KLR	OS	FF	WA	10.25
40#	VRB2112A9	97000M	200m†	96G-98G	CW	2550	27m			KLR	OS	MT	WA	630m
41#	VRB2112A10	99000M	200m†	98G-100G	CW	2550	27m			KLR	OS	MT	WA	630m
42#	100V10A	100G	.025	95.00G - 105.0G	CW	2700	.025			KLR	OS	MT	WA	.63
43#	100V11	100G	80m	95000M-105G	CW	2700	30m			KLR	OS	MT	WA	1.32
44#	VRB2115A4	101000M	10m†	98G-104G	CW	1650	15m			KLR	OS	MT	WA	630m
45#	VRB2113A4	101000M	75m†	98G-104G	CW	2550	27m			KLR	OS	MT	WA	630m
46#	VRB2113B4	101000M	75m†	98G-104G	CW	2550	27m			KLR	OS	MT	WA	1.0
47#	VRB2112A11	101000M	200m†	100G-102G	CW	2550	27m			KLR	OS	MT	WA	630m
48#	VRB2112A12	103000M	200m†	102G-104G	CW	2550	27m			KLR	OS	MT	WA	630m
49#	105V10	105G	30m	100G-110G	CW	2700	30m			KLR	OS	MT	WA	1.32
50#	VRB2112A13	105000M	200m†	104G-106G	CW	2550	27m			KLR	OS	MT	WA	630m
51#	VRB2115A5	107000M	10m†	104G-110G	CW	1650	15m			KLR	OS	MT	WA	630m
52#	VRB2113A5	107000M	75m†	104G-110G	CW	2550	27m			KLR	OS	MT	WA	630m
53#	VRB2113B5	107000M	75m†	104G-110G	CW	2550	27m			KLR	OS	MT	WA	1.0
54#	VRB2112A14	107000M	200m†	106G-108G	CW	2550	27m			KLR	OS	MT	WA	630m
55#	VRB2112A15	109000M	200m†	108G-110G	CW	2550	27m			KLR	OS	MT	WA	630m
56#	VRT2121A1	111000M	100m†	110G-112G	CW	2550	27m			KLR	OS	MT	WA	630m
57#	VRT2121A2	113000M	100m†	112G-114G	CW	2550	27m			KLR	OS	MT	WA	630m
58#	VRT2125A1	114000M	10m†	110G-118G	CW	1850	16m			KLR	OS	MT	WA	630m
59#	VRT2123A1	114000M	50m†	110G-118G	CW	2550	27m			KLR	OS	MT	WA	630m
60#	VRT2123B1	114000M	50m†	110G-118G	CW	2550	27m			KLR	OS	MT	WA	1.0
61#	120V10	115G	.01	107.0G - 122.0M	CW	2700	.025			KLR	OS	MT	WA	1.32
62#	VRT2121A3	115000M	100m†	114G-116G	CW	2550	27m			KLR	OS	MT	WA	630m
63#	VRT2121A4	117000M	100m†	116G-118G	CW	2550	27m			KLR	OS	MT	WA	630m
64#	VRT2121A5	119000M	100m†	118G-120G	CW	2550	27m			KLR	OS	MT	WA	630m
65#	VRT2121A6	121000M	100m†	120G-122G	CW	2550	27m			KLR	OS	MT	WA	630m
66#	VRT2125A2	122000M	10m†	118G-126G	CW	1850	16m			KLR	OS	MT	WA	630m
67#	VRT2123A2	122000M	50m†	118G-126G	CW	2550	27m			KLR	OS	MT	WA	630m
68#	VRT2123B2	122000M	50m†	118G-126G	CW	2550	27m			KLR	OS	MT	WA	1.0
69#	VRT2121A7	123000M	100m†	122G-124G	CW	2550	27m			KLR	OS	MT	WA	630m
70#	125V10	125G	25m	120G-130G	CW	2700	30m			KLR	OS	MT	WA	1.32
71#	VRT2121A8	125000M	100m†	124G-126G	CW	2550	27m			KLR	OS	MT	WA	630m
72#	VRT2411C	125000M	500m†	110.0G-140.0G	CW	9500	50m			KLR	OS	MT		10
73#	VRT2411A	125000M	1.0 †	110.0G-140.0G	CW	9500	50m			KLR	OS	FF		10
74#	VRT2411B	125000M	1.0 †	110.0G-140.0G	CW	9500	50m			KLR	OS	FF		10
75#	VRT2121A9	127000M	100m†	126G-128G	CW	2550	27m			KLR	OS	MT	WA	630m
76#	VRT2121A10	129000M	100m†	128G-130G	CW	2550	27m			KLR	OS	MT	WA	630m
77#	VRT2125A3	130000M	10m†	126G-134G	CW	1850	16m			KLR	OS	MT	WA	630m
78#	VRT2123A3	130000M	50m†	126G-134G	CW	2550	27m			KLR	OS	MT	WA	630m
79#	VRT2123B3	130000M	50m†	126G-134G	CW	2550	27m			KLR	OS	MT	WA	1.0
80#	VRT2121A11	131000M	100m†	130G-132G	CW	2550	27m			KLR	OS	MT	WA	630m
81▼#	KA1330	133000M	10m	130.00G-136.00G		2700	30m			KLR	OS	MT	WA	1.3
82#	VRT2121A12	133000M	100m†	132G-134G	CW	2550	27m			KLR	OS	MT	WA	630m
83#	VRT2121A13	135000M	100m†	134G-136G	CW	2550	27m			KLR	OS	MT	WA	630m
84#	VRT2121A14	137000M	100m†	136G-138G	CW	2550	27m			KLR	OS	MT	WA	630m
85#	VRT2125A4	138000M	10m†	134G-142G	CW	1850	16m			KLR	OS	MT	WA	630m
86#	VRT2123A4	138000M	50m†	134G-142G	CW	2550	27m			KLR	OS	MT	WA	630m
87#	VRT2123B4	138000M	50m†	134G-142G	CW	2550	27m			KLR	OS	MT	WA	1.0
88▼#	KA1390	139000M	10m	136.00G-142.00G		2700	30m			KLR	OS	MT	WA	1.3
89#	VRT2121A15	139000M	100m†	138G-140G	CW	2550	27m			KLR	OS	MT	WA	630m
90#	VRT2121A16	140000M	100m†	139G-141G	CW	2550	27m			KLR	OS	MT	WA	630m
91#	VRT2122A1	141000M	50m†	140G-142G	CW	2550	27m			KLR	OS	MT	WA	630m
92#	VRT2122B1	141000M	50m†	140G-142G	CW	2550	27m			KLR	OS	MT	WA	1.0
93#	VRT2122A2	143000M	50m†	142G-144G	CW	2550	27m			KLR	OS	MT	WA	630m
94#	VRT2122B2	143000M	50m†	142G-144G	CW	2550	27m			KLR	OS	MT	WA	1.0
95▼#	KA1450	145000M	10m	142.00G-148.00G		2700	30m			KLR	OS	MT	WA	1.3
96#	VRT2122A3	145000M	50m†	144G-146G	CW	2550	27m			KLR	OS	MT	WA	630m
97#	VRT2122B3	145000M	50m†	144G-146G	CW	2550	27m			KLR	OS	MT	WA	1.0
98#	VRT2124A1	146000M	25m†	142G-150G	CW	2550	27m			KLR	OS	MT	WA	630m
99#	VRT2124B1	146000M	25m†	142G-150G	CW	2550	27m			KLR	OS	MT	WA	1.0
100#	VRT2122A4	147000M	50m†	146G-148G	CW	2550	27m			KLR	OS	MT	WA	630m
101#	VRT2122B4	147000M	50m†	146G-148G	CW	2550	27m			KLR	OS	MT	WA	1.0
102#	VRT2122A5	149000M	50m†	148G-150G	CW	2550	27m			KLR	OS	MT	WA	630m
103#	VRT2122B5	149000M	50m†	148G-150G	CW	2550	27m			KLR	OS	MT	WA	1.0
104▼#	KA1510	151000M	10m	148.00G-154.00G		2700	30m			KLR	OS	MT	WA	1.3
105#	VRT2122A6	151000M	50m†	150G-152G	CW	2550	27m			KLR	OS	MT	WA	630m
106#	VRT2122B6	151000M	50m†	150G-152G	CW	2550	27m			KLR	OS	MT	WA	1.0
107#	VRT2122A7	153000M	50m†	152G-154G	CW	2550	27m			KLR	OS	MT	WA	630m
108#	VRT2122B7	153000M	50m†	152G-154G	CW	2550	27m			KLR	OS	MT	WA	1.0
109#	VRT2124A2	154000M	25m†	150G-158G	CW	2550	27m			KLR	OS	MT	WA	630m
110#	VRT2124B2	154000M	25m†	150G-158G	CW	2550	27m			KLR	OS	MT	WA	1.0

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	VRT2122A8	155000M	50m†	154G-156G	CW	2550	27m			KLR	OS	MT	WA	630m
2#	VRT2122B8	155000M	50m†	154G-156G	CW	2550	27m			KLR	OS	MT	WA	1.0
3#	VRT2122A9	157000M	50m†	156G-158G	CW	2550	27m			KLR	OS	MT	WA	630m
4#	VRT2122B9	157000M	50m†	156G-158G	CW	2550	27m			KLR	OS	MT	WA	1.0
5#	VRT2122A10	159000M	50m†	158G-160G	CW	2550	27m			KLR	OS	MT	WA	630m
6#	VRT2122B10	159000M	50m†	158G-160G	CW	2550	27m			KLR	OS	MT	WA	1.0
7#	VRT2122A11	161000M	50m†	160G-162G	CW	2550	27m			KLR	OS	MT	WA	630m
8#	VRT2122B11	161000M	50m†	160G-162G	CW	2550	27m			KLR	OS	MT	WA	1.0
9#	VRT2124A3	162000M	25m†	158G-166G	CW	2550	27m			KLR	OS	MT	WA	630m
10#	VRT2124B3	162000M	25m†	158G-166G	CW	2550	27m			KLR	OS	MT	WA	1.0
11#	VRT2122A12	163000M	50m†	162G-164G	CW	2550	27m			KLR	OS	MT	WA	630m
12#	VRT2122B12	163000M	50m†	162G-164G	CW	2550	27m			KLR	OS	MT	WA	1.0
13#	VRT2122A13	165000M	50m†	164G-166G	CW	2550	27m			KLR	OS	MT	WA	630m
14#	VRT2122B13	165000M	50m†	164G-166G	CW	2550	27m			KLR	OS	MT	WA	1.0
15#	VRT2124A4	166000M	25m†	162G-170G	CW	2550	27m			KLR	OS	MT	WA	630m
16#	VRT2124B4	166000M	25m†	162G-170G	CW	2550	27m			KLR	OS	MT	WA	1.0
17#	VRT2122A14	167000M	50m†	166G-168G	CW	2550	27m			KLR	OS	MT	WA	630m
18#	VRT2122B14	167000M	50m†	166G-168G	CW	2550	27m			KLR	OS	MT	WA	1.0
19#	VRT2122A15	169000M	50m†	168G-170G	CW	2550	27m			KLR	OS	MT	WA	630m
20#	VRT2122B15	169000M	50m†	168G-170G	CW	2550	27m			KLR	OS	MT	WA	1.0
21#	VRY2131A	195000M	10m†	170G-220G	CW	2550	27m			KLR	OS	MT	WA	1.0
22#	M4634	2.856G	4.0M	2.8G-2.86G	2.0m	15k	116	45		KLS	AM	FF	WA	100
23▼#	PT1140	1290M	3000	1.200G-1.380G	1.0m	160k	140 Ø	30		KLT#			WA	1499
24♦	VA145H	2800M	3.25M*	2.700G - 2.900G	.002	145k	100	39		KLTØ	AM		WA	140
25♦	VA145D	2.8G	5.0M	2.700G-2.900G	2.0m	117k	84	38		KLTØ	AM		WA	120
26♦	VA145UL	2815M	4.0M*	2.715G-2.915G	2.0m	145k	100	39		KLTØ	AM		WA	140
27♦	VA145B	2.85G	5.0M	2.750G-2.950G	2.5m	125k	92	40		KLTØ	AM		WA	120
28▼#	PT1120	2950M	10000	2.800G-3.100G*	10m	70000	40 Ø	35		KLT#	AM	MT	WA	176
29♦	VA145E	3.0G	3.5M*	2.900G-3.100G	2.0m	145k	100	39		KLTØ	AM		WA	140
30♦	VA145UH	3115M	4.0M*	3.015G-3.215G	2.0m	145k	100	39		KLTØ	AM		WA	140
31♦	VA145J	3.115G	4.50M	3.015G-3.215G	2.5m	117k	90	40		KLTØ	AM		WA	125
32♦	VA145F	3.3G	8.0M	3.100G-3.500G	2.0m	155k	125	36		KLTØ	AM		WA	110
33♦	VA915A	3.35G	8.0M	3.100G-3.600G	3.0m	175k	145	53		KLTØ	AM		WA	275
34♦	VA146M	5625M	5.0M	5.400G-5.900G	2.0m	139k	102	36		KLT	AM	FF	WA	100
35♦	VA146C	5625M	5.5M	5.400G-5.900G	2.0m	137k	92	36		KLT	AM	FF	WA	100
36♦	VA146	5650M	3.0M†	5.400G - 5.900G	4.0m	165k	94	35		KLTØ	AM		WA	135
37♦	VA913A	5.65G	5.0M	5.400G-5.900G	2.0m	135k	98	40		KLTØ	AM		WA	123
38	VA521	6250M	2.0	5.500G - 7.000G†		4000	.033			KL2	OS			
39#	SZ31	8500M	20	8.000G - 9.000G*	CW	8000	.04			KL2	OS	FF	WA	3.63
40	VA508	8750M	5.0 *	8.000G - 9.500G†	CW	1350	.125			KL2	OS	FF	WA	.50
41#	K3071	8.800G	1.5	8.795G-8.805G	CW	900	75m			KL2	OS	FF	WA	500m§
42#	K3090	8800M	1.5	8.795G-8.805G	CW	750	70m			KL2	OS	FF	WA	500m
43#	SZ22	9000M	20	8.000G - 10.00G*	CW	8000	.04			KL2	OS	FF	WA	1.63
44♦#	TV2350	9250M	600m†	8.500G-10.000G		1.1k	70mØ			KL2	OS	MT	WA	551m
45	QKW1802	9300M	250m	9.20G-9.40G	1.0	4000	30m			KL2	OS		WA	10
46#	SY31	9.5G	200	9.48G-9.52G	CW	10k	260m	10		KL2	AML	MT	WA	
47	SOX2397	9700M	.50 †	9.700G	CW	4500	.03			KL2	OS	FF	WA	15
48	QKL1390	9770M	3.0	9.770G-9.770G	CW	5.0k	35m			KL2	OS		WA	
49	QKW1803	9800M	500m	9.75G-9.85G	1.0	4400	30m			KL2	OS		WA	10
50#	VKX2402A1	9800M	2.0 †	9.78G-9.82G	CW	750	60m	10		KL2	AM	MT	WA	570m
51	VA523	10050M	.20	9.500G - 10.60G*	CW	2200	.01			KL2	OS	FF	WA	
52#	TV514	10050M	2.0 †	9.500G - 10.60G	CW	4500	.03			KL2	OS		WA	10
53▼#	TV514B	10050M	2.0 †	9.500G-10.600G		4.2k	40mØ			KL2	OS	MT	WA	992m
54	VA514	10050M	2.0 †	9.500G - 10.60G*	CW	4200	.04			KL2	OS	FF	WA	1.0
55	VA518	10050M	2.0 †	9.500G - 10.60G*	CW	4000	.03			KL2	OS	MT	WA	
56	VA519	10050M	2.0 †	9.500G - 10.60G*	CW	4000	.03			KL2	OS	FF	WA	
57	VA520	10050M	2.0 †	9.500G - 10.60G*	CW	4000	.03			KL2	OS	MT	WA	
58	V23	10050M	5.0	9.100G - 11.00G	CW	1350	.125			KL2	OS	MT	WA	.37
59♦#	TV517	10050M	50 †	9.500G-10.600G		11k	100mØ			KL2	OS	MT	WA	4.40
60	VA517	10050M	50 †	9.500G - 10.60G†	CW	10000	.08			KL2△	OS	MT	WA	3.5
61	VA516	10050M	200	9.500G - 10.60G†	CW	13500	.14			KL2#	OS	FF	WA	2.5
62	QKK1466	10125M	180	10.00G-10.25G	CW	13000	140m			KL2	OS	MT	WA	10
63	QKK1106	10250M	2.0	10.000G-10.500G	CW	4.0k	35m			KL2	OS	FF	WA	
64	QKK1060	10360M	2.0	10.360G-10.360G	CW	3.9k	30m			KL2	OS	FF	WA	
65	VA536	12G	14	8.2G-12.4G†	CW	1.35k	120m			KL2	OS	FF	WA	500m
66	QKK1237	12975M	500m	12.700G-13.250G	CW	750	85m			KL2	OS	MT	CO	
67	VA503C	13300M	1.0 †	13.30G	CW	1600	.026			KL2	OS	FF	WA	.34
68	VA510D	13300M	2.0 †	13.30G	CW	2500	.02			KL2△	OS	FF	WA	.44
69	VA506	13300M	5.0	13.30G	CW	2200	.05			KL2	OS	FF	WA	
70	VA504B	13300M	15 †	13.30G	CW	3000	.077			KL2	OS	FF	WA	.56
71	VA503B	13500M	1.0 †	13.50G	CW	1600	.026			KL2	OS	FF	WA	.34
72	VA515B	13500M	7.5	13.50G	CW	2200	.06			KL2	OS	FF	WA	.63
73	VA533	15200M	1.0 †	12.40G - 18.00G*	CW	1400	.12			KL2△	OS	FF	WA	.50
74	VKU7008	15200M	10	12.400G-18.000G	CW	3500	120m			KL2△#	OS	FF	WA	1.5
75♦#	TH2408	15600M	200m†	Ku-Band		700	45mØ			KL2	OS	MT	WA	705m
76	QKK1447	15650M	250m	15.55G-15.75G	CW	3250	20m			KL2	OS	MT	WA	5.0
77#	YK1120	16500M	4.0 †	16.00G - 17.00G	CW	2200	.065			KL2	OS	FF	CO	.94
78	JANSOU293	17.500G	1.0 †	17.495G-17.505G		1080	80m			KL2	OS	FF	WA	750m△
79	VA513	17750M	1.0 †	17.75G	CW	1500	.032			KL2	OS	FF	WA	.56
80	VA532	21000M	4.0 †	18.00G - 24.00G	CW	1300	.095			KL2△	OS	FF	WA	.56
81	VKK7009	22250M	10	18.000G-26.500G	CW	3000	80mØ			KL2△	OS	FF	WA	1.5
82	VA537	26G	1.0	24G-28G†	CW	950	60m			KL2	OS	FF	WA	
83	VA531	29750M	1.5 †	26.50G - 33.00G	CW	1300	.08			KL2	OS	FF	WA	.60
84	VA531A	31000M	.20	31.00G	CW	1475	.08			KL2△	OS	FF	WA	.56
85	QKK1554	31000M	1.0	30.900G-31.200G	CW	6.0k	35m			KL2	OS	FF	WA	
86	QKL1550	31500M	30	31.500G-31.500G	500m	5.25k	120m			KL2	AM	FF	WA	
87	QKK1486	31500M	35	31.50G-31.50G	500m	13000	130m			KL2	OS	FT	WA	2.0
88	VKA7010	33.250G	10	26.500G-40.000G	CW	3000 Ø	80mØ			KL2△	OS	FF	WA	800m
89	VA534	36500M	1.5 †	33.00G - 40.00G*	CW	1550	.08			KL2△	OS	FF	WA	.56
90	VA535	42000M	1.0 †	40.00G - 44.00G		1425	.065			KL2	OS	FF	WA	
91	3KM50000PA	313M	20k	225M-400M	CW	30k	2.5	30		KL3	AM	MT	CO	2103 *
92	3KM300LA	400M	105000	345.0M - 455.0M	CW	30000	9.0 Ø	13.2		KL3Ø#	AM	MT	CO	560
93	3KM3LB	413M	2000	350.0M - 475.0M	CW	9000	.75	30		KL3	AM	MT	CO	616 *
94	3KM3000LA	485M	12k	385M-585M	60m	15k	1.74	30		KL3Ø	AM	MT	CO	46
95#	K347A	598M	600k	580M-615M	2.4m	80k	23	33		KL3	AM	MT	CO	65 §
96	3K50000LF	645M	10000	570.0M - 720.0M	CW	20000	2.5	25		KL3	AM	MT	CO	51
97	3K3000LQ	853M	2000	720.0M - 985.0M	CW	9000	.75	30		KL3	AM	MT	CO	32
98	3K210000LQ	870M	75000	755.0M - 985.0M	CW	30000	8.0	13		KL3	AM	MT	WA	370
99#	Z211/1G	1.08G	7.0k†	950M-1.21G*	35m	5.0k	2.5	33†		KL3	AM	SR	CO	
100	F2910	1087M	5.5k†	960M-1.215G	25m	12.5k	2.0	24		KL3*△	AM	MT	CO	35
101#	KL415	1087M	5.5k	960M-1215M	40m	17000	7.5			KL3*△	AM	MT	CO	35
102	SAL415	1087M	5500	960.0M - 1.215G	.025	12500	2.0	24		KL3*△	AM	MT	CO	35 △
103	8493/F2913	1087M	11500 †	960M-1.215G	25m	12500	4.8	25		KL3△*	AM	MT	CO	31
104	F2911	1087M	11.5k†	960M-1.215G	25m	12.5k	4.8	25		KL3*△	AM	MT	CO	31
105#	SAL89	1087M	12k	960M-1215M	25m	20k	10	30		KL3*△	AM	MT	CO	
106	F2912	1087M	37k†	960M-1.215G	25m	24.0k	8.0	27		KL3*△	AM	MT	CO	45
107	SAL219	1.087G	37k	960M-1.215G	22.5m	24	6.2	30		KL3*△	AM	MT	CO	48 △
108#	K3099	1088M	11.5k†	960M-1215M	26m	12500	10	26†		KL3	AM	MT	CO	30
109	F2909	1290M	13k†	1.215G-1.365G	20m	14.5k	4.8	26		KL3*△	AM	MT	CO	43
110	X3002A	1300M	1000	1.235G - 1.365G	CW	9000	.65	27		KL3	AM	MT	CO	155

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	4KMP300LU	1.300G	2.0k	1.235G-1.365G	50m	110k	63	35		KL3Ø	AM	MT	CO	400
2	X3002	1300M	4000	1.235G - 1.365G	.03	13000	1.12	23		KL3	AM	MT	CO	25
3	7504	1300M	2.2M	1.240G - 1.360G	.003	125.0k	87	36		KL3	AM	MT	WA	110
4	SAS61	2800M	10000	2.700G - 2.900G	.12	15000	5.5	30		KL3Δ	AM	MT	CO	8.0
5	SAS60B	2815M	30 *	2.700G - 2.930G	CW	1000	.35	25		KL3Δ	AM	MT	CO	2.6
6#	YK1110	2998M	6.0M	2.993G-3.003G	2.0m	220k	120			KL3	AM	FF	WA	220
7	K211	2.998G	7.0M	2.998G	1.5m	210k	105	32		KL3Ø#	AM	FF	WA	198
8	SAS60A	3015M	2.5 †	2.670G - 3.330G	CW	1000	.30	30		KL3Δ	AM	MT		3.0
9	SAC41	3925M	7.0	3.700G - 4.200G	CW	750	.20	25		KL3	AM	MT	WA	3.3
10	SAC225	5400M	3.0M	4.200G - 6.800G	.002	130.0k	98	24		KL3Ø	AM	MT	WA	140 Δ
11	SAC45A	5645M	2.0 †	5.385G - 5.900G	CW	1100	.175	16†		KL3Δ	AM	MT	CO	2.0
12	SAC46	5645M	300 †	5.385G - 5.900G	.002	9000	.67	34		KL3Δ	AM		CO	2.0
13	SAC47	5.645G	25k†	5.385G-5.9G	1.65m	20k	8.5	24†		KL3Δ	AM		WA	4.0
14	SAC42	5650M	3.3M	5.400G - 5.900G	.002	135.0k	112	23.5		KL3Ø	AM	MT	WA	140 Δ
15	VKX7006	10.200G	25	8.000G-12.400G	CW	2000 Ø	100mØ			KL3§	OS	FF	WA	8.0
16	QKL1219	10200M	2.5k	10.000G-10.400G	CW	11k	800m	25		KL3	AM	MT	WA	31
17♦#	LD585	2050	1100	1.700G-2.400G	CW	7000	600m	44		KL4†	AM	MT	CO	88.18 *
18	4KM50LC	400M	10000 *	345.0M - 455.0M	CW	17000	1.9	30		KL4	AM			64
19	4KM50LB	413M	10000	350.0M - 475.0M	CW	17000	2.2	54		KL4	AM	MT	CO	861 *
20	VA842	425M	1.25M	400.0M - 450.0M	.06	107.0k	29	43		KL4Ø	AM		CO	2290 *
21	4KM150LB	430M	50000 Δ	429.8M - 433.8M		22000	6.3	40		KL4	AM			165
22	X602K	438M	150k†	375.0M - 500.0M	.22	50000	5.0	45		KL4Ø	AM		CO	196
23	4KM50000LA3	505M	10000	400.0M - 610.0M	CW	20000	2.5	54		KL4	AM	MT	CO	831 *
24	4KM50000LA5	505M	10000	400.0M - 610.0M	CW	17000	2.0	43		KL4	AM			74
25#	K365	505M	10000	400.0M - 610.0M	CW	20000	2.5	55		KL4*	AM	MT	CO	64 §
26#	1AV30	518M	6.0k	470M-566M	CW	12k	2.0	36		KL4Ø	AM	MT	CO	240
27#	1AV50	518M	12500	470M-566M	CW	17000	3.0	40		KL4Ø	AM	MT	CO	220
28	VA890A	518M	30000	470.0M - 566.0M	CW	19000	5.25	33		KL4Ø	AM	MT	CO	200
29#	1AV60	518M	32000	470M-566M	CW	20000	5.5	38		KL4Ø	AM	MT	CO	290
30▼#	K3382	518M	58000	470M-566M	CW	2200	7.0	44		KL4#	AM	EM	CO	160 §
31▼#	1AV57	519.25M	21000	470M-566M	CW	17500	2.5	35		KL4Ø	AM	MT	CO	275
32#	Z153-50Z	535M	12.5k	470M-598M	CW	14k	44	43		KL4Ø	AM	MT	CO	780
33♦#	Z152-50Z	535M	13000	470M-598M	CW	13500	3.1	42†		KL4Ø	AM	MT	CO	835 *
34#	1AV56	535M	17k	460M-690M	CW	20k	3.0	36		KL4Ø	AM	MT	CO	
35#	1AV48	535M	30k	460M-690M	CW	20k	6.0	38		KL4Ø	AM	MT	CO	
36#	K383	540M	6000	470.0M - 610.0M	CW	12000	2.5	38		KL4Ø	AM	MT	CO	946 *
37#	K3004	540M	7000	470.0M - 610.0M	CW	12500	3.0	33†		KL4	AM	MT	CO	60 §
38#	Z150/35Z	540M	8000	470.0M - 610.0M	CW	12500	3.0	38		KL4Ø	AM	MT	CO	60
39#	K370	540M	12000	470.0M - 610.0M	CW	14000	3.5	40		KL4Ø	AM	MT	CO	946 *
40#	Z151/50Z	540M	12000	470.0M - 610.0M	CW	12500	3.0	38		KL4Ø	AM	MT	CO	60
41	4KM70LA	540M	12500 *	470.0M - 610.0M	CW	13000	2.8	30		KL4	AM	MT	CO	110
42#	Z154-70Q	540M	12500 †	470M-610M	CW	24k	4.2	30†		KL4	AM	MT	CO	119
43	4KM100LA	540M	25000 *	470.0M - 610.0M	CW	16000	3.82	30		KL4	AM	MT	CO	1919 *
44#	K376	540M	25000	470.0M - 610.0M	CW	20000	6.0	42		KL4	AM	MT	CO	120 §
45#	K3014	540M	25000	470.0M - 610.0M	CW	17500	4.5	40†		KL4Ø	AM	MT	CO	150
46#	Z155/150Z	540M	40000	470.0M - 610.0M	CW	23000	7.0	40		KL4Ø	AM	MT	CO	150
47#	K3017	540M	45000	470.0M - 610.0M	CW	23000	7.0	40		KL4#	AM	MT	CO	210
48#	K3082	540M	45k*	470M-610M	CW	22k	7.0	47		KL4	AM	MT	CO	160
49▼#	K3282	540M	45000	470M-610M	CW	22000	6.5			KL4	AM	MT	CO	
50#	YK1190	540M	45000	470M-610M	CW	23000	7.0	42		KL4	AM	MT	CO	150
51▼#	K3217	540M	47000	470M-610M	CW	21500	6.3			KL4	AM	MT	CO	
52	4KM150LA	540M	50000 *	470.0M - 610.0M	CW	20000	5.4	30		KL4	AM	MT	CO	119
53#	Z154-150Q	540M	50000	470M-610M	CW	24k	7	30		KL4	AM	MT	CO	119
54▼#	1AV35	549.25M	7000	470M-566M	CW	17000	30	35		KL4Ø	AM	MT	CO	253
55▼#	1AV58	597.25M	21000	566M-698M	CW	17500	2.5	35		KL4Ø	AM	MT	CO	264
56	VA958A	615M	12500	590.0M - 640.0M	CW	14500	2.7	40		KL4Ø	AM	MT	CO	220
57	YK1002	630M	2.2k	470M-790M	CW	18.5k	2.0			KL4†#	AM	MT	CO	99
58	YK1001	630M	11k	470.0M - 790.0M	CW	18k	2.0			KL4†	AM	MT	CO	121
59#	1AV31	632M	6.0k	566M-698M	CW	12k	2.0	36		KL4Ø	AM	MT	CO	220
60	VA891A	632M	30000	566.0M - 698.0M	CW	19000	5.25	33		KL4Ø	AM	MT	CO	200
61#	1AV61	632M	32000	566M-698M	CW	20000	5.5	38		KL4Ø	AM	MT	CO	270
62▼#	K3383	632M	58000	566M-698M	CW	2200	7.0	44		KL4#	AM	EM	CO	160 §
63#	YK1191	650M	45000	590M-720M	CW	23000	7.0	42		KL4	AM	MT	CO	150
64#	Z163-50Z	654M	12.5k	598M-710M	CW	14k	44	43		KL4Ø	AM	MT	CO	780
65#	K384	655M	6000	590.0M - 720.0M	CW	12000	2.5	37		KL4Ø	AM	MT	CO	922 *
66#	K3005	655M	7000	590.0M - 720.0M	CW	12500	3.0	33†		KL4	AM	MT	CO	55 §
67#	K371	655M	12000	590.0M - 720.0M	CW	14000	3.5	40		KL4Ø	AM	MT	CO	922 *
68	4KM70LF	655M	12500 *	590.0M - 720.0M	CW	13000	2.8	30		KL4	AM	MT	CO	115
69♦#	Z162-50Z	655M	13000	598M-710M	CW	13500	3.1	42†		KL4Ø	AM	MT	CO	765 *
70	4KM100LF	655M	25000 *	590.0M - 720.0M	CW	16000	3.82	30		KL4	AM	MT	CO	151
71#	K377	655M	25000	590.0M - 720.0M	CW	20000	6.0	44		KL4	AM	MT	CO	120 §
72#	K3015	655M	25000	590.0M - 720.0M	CW	17500	4.5	40†		KL4	AM	MT	CO	150
73#	K3018	655M	45000	590.0M - 720.0M	CW	23000	7.0	44		KL4#	AM	MT	CO	210
74#	K3083	655M	45k*	590M-720M	CW	22k	7.0	47		KL4	AM	MT	CO	160
75▼#	K3283	655M	45000	590M-720M	CW	22000	6.5			KL4	AM	MT	CO	
76▼#	K3218	655M	47000	590M-720M	CW	21500	6.3			KL4	AM	MT	CO	
77	4KM150LF	655M	50000 *	590.0M - 720.0M	CW	20000	5.4	30		KL4	AM	MT	CO	151
78#	Z160/35Z	660M	8000	590.0M - 720.0M	CW	12500	3.0	38		KL4Ø	AM	MT	CO	55
79#	Z161/50Z	660M	12000	590.0M - 720.0M	CW	12500	3.0	38		KL4Ø	AM	MT	CO	55
80#	Z166/150Z	660M	40000	590.0M - 720.0M	CW	23000	7.0	40		KL4Ø	AM	MT	CO	150
81#	YK1151	665M	22000	470M-860M	CW	25000	4.0	44		KL4†	AM	MT	CO	220 *
82#	1AV51	682M	12500	566M-698M	CW	17000	3.0	40		KL4Ø	AM	MT	CO	200
83	4KMV150LH1	715M	190kΔ	714.5M - 715.5M		38000	14.8	40		KL4	AM			250
84▼#	1AV59	735.25M	21000	698M-890M	CW	17500	2.5	35		KL4Ø	AM	MT	CO	253
85#	K385	780M	6000	700.0M - 860.0M	CW	12000	2.5	35		KL4Ø	AM	MT	CO	903 *
86#	K3006	780M	7000	700.0M - 860.0M	CW	12500	3.0	33†		KL4	AM	MT	CO	55 *
87#	Z170/35Z	780M	8000	700.0M - 860.0M	CW	12500	3.0	38		KL4Ø	AM	MT	CO	150
88#	K372	780M	12000	700.0M - 860.0M	CW	14000	3.5	40		KL4Ø	AM	MT	CO	903 *
89#	Z171/50Z	780M	12000	700.0M - 860.0M	CW	12500	3.0	38		KL4Ø	AM	MT	CO	55
90♦#	Z172-50Z	780M	13000	710M-854M	CW	13500	3.1	42†		KL4Ø	AM	MT	CO	675 *
91#	K3016	780M	25000	700.0M - 860.0M	CW	17500	4.5	40†		KL4	AM	MT	CO	150
92#	K3019	780M	45000	700.0M - 860.0M	CW	23000	7.0	46		KL4#	AM	MT	CO	155
93#	K3084	780M	45k*	700M-860M	CW	22k	7.0	47		KL4	AM	MT	CO	155
94▼#	K3284	780M	45000	700M-860M	CW	22000	6.5			KL4	AM	MT	CO	
95#	YK1192	780M	45000	700M-860M	CW	23000	7.0	42		KL4	AM	MT	CO	150
96▼#	K3219	780M	46000	700M-860M	CW	21500	6.3			KL4	AM	MT	CO	
97#	Z173-50Z	782M	12.5k	710M-854M	CW	14k	44	43		KL4Ø	AM	MT	CO	780
98	VA892A	789M	30000	698.0M - 890.0M	CW	19000	5.25	33		KL4Ø	AM	MT	CO	186
99▼#	K3384	792M	58000	694M-890M	CW	2200	7.0	44		KL4#	AM	EM	CO	155 §
100#	1AV32	794M	6.0k	698M-890M	CW	12k	2.0	36		KL4Ø	AM	MT	CO	200
101#	1AV52	794M	12500	698M-890M	CW	17000	3.0	39		KL4Ø	AM	MT	CO	180
102#	1AV62	794M	32000	698M-890M	CW	20000	5.5	37		KL4Ø	AM	MT	CO	250
103	4KM3000LR	798M	2000 †	610.0M - 985.0M	CW	10000	.75	45†		KL4Ø	AM		CO	38
104	4KM50000LQ	798M	10000	610.0M - 985.0M	CW	20000	2.5			KL4*	AM	FM		464 *
105	4KM70LH	805M	12500 *	720.0M - 890.0M	CW	13000	2.8	30		KL4	AM	MT	CO	205
106	4KM100LH	805M	25000 *	720.0M - 890.0M	CW	16000	3.82	30		KL4	AM	MT	CO	210
107#	Z188/150Z	805M	40000	720.0M - 890.0M	CW	23000	7.0	40		KL4Ø	AM	MT	CO	210
108	4KM150LH	805M	50000 *	720.0M - 890.0M	CW	20000	5.4	30		KL4	AM	MT	CO	210
109	4KM70LH2	805M	100kΔ	800.0M - 810.0M		30000	10	40		KL4	AM			205
110	4KM150LH1	805M	150kΔ	800.0M - 810.0M		35000	13	40		KL4	AM			210

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	VA920B	850M	1.0k	800M-900M		9.0k	825m	36		KL4	AM	MT	CO	310 *
2	VA920A	870M	2000	755.0M - 985.0M	CW	8000	.80	45		KL4Ø	AM		CO	
3	4KM50000LR	870M	10000	755.0M - 985.0M	CW	20000	2.5	50†		KL4Ø	AM	MT	CO	404 *
4	VA917B	870M	10000	755.0M - 985.0M	CW	13000	3.0	30		KL4Ø	AM	MT	CO	
5	K386	870M	12000	755.0M - 985.0M	CW	14000	3.5	40		KL4Ø	AM	MT	CO	839 *
6	4K200LW	1175M	55000	1.000G - 1.235G	CW	26000	8.5	34		KL4Ø	AM	MT	WA	
7	4K200LX	1300M	60000	1.235G - 1.365G	CW	26000	8.5	34.9		KL4#Ø	AM		WA	
8#	PT1024	1.300G	100k	1.200G-1.400G	60m	45k	9.0	47		KL4△#	AM	MT	CO	132
9	X780	1300M	2.5M	1.235G - 1.356G	.03	110.0k	63.2	35		KL4	AM	MT	WA	400
10#	LD919	1475M	1.0k	1425M-1525M	CW	7.0k	600m	38		KL4†	AM	MT	CO	90
11#	LD952	1775M	2.0k	1.700G-1.850G	CW	9.0k	850m	36		KL4	AM	MT	CO	90
12#	LD659	1775M	20k	1.700G-1.850G	CW	20k	3.2	47		KL4	AM	MT	WG	65
13▼#	LD952A	1800M	2200	1.700G-1.900G	CW	8500	850m	36		KL4†	AM	MT	CO	97 *
14#	LD585A	1850M	1000	1700M-2000M	CW	7000	590m	34		KL4†	AM	MT	CO	85
15▼#	LD585B	1850M	1200	1.700G-2.000G	CW	7000	600m	39		KL4†	AM	MT	CO	88.18 *
16	4K3SL	1950M	1000 *	1.700G - 2.400G	CW	6500	.55	45		KL4	AM	MT	CO	85
17	4K3SJ	2050M	1000 †	1.700G - 2.400G	CW	7000	.60	40†		KL4†	AM	MT	CO	85 *
18	VA802B	2050M	1000	1.700G - 2.400G	CW	6000	.60	40		KL4†	AM	MT	CO	85
19	4K5SL1	2050M	2000 †	1.700G - 2.400G	CW	8600	.80	40†		KL4†	AM	MT	WA	95 *
20	VA800E	2050M	10000	1.700G - 2.400G	CW	20000	2.35	40		KL4Ø	AM	MT	WA	50
21	4KM50SJ	2050M	12000 †	1.700G - 2.400G	CW	20000	3.0	40†		KL4	AM	MT	WA	260 *
22	4KM70SJ	2050M	22200	1.700G - 2.400G	CW	21000	4.0	40†		KL4Ø	AM	MT	WA	260 *
23	4KM50SI	2100M	10000	2.000G - 2.200G	CW	20000	3.0	40		KL4	AM	MT	WA	90
24	VKS7793	2475M	11000	2.40G-2.55G	CW	20000	3.0	43		KL4Ø#	AM	MT	WA	90
25#	LD4050	2525M	10k	2400M-2650M	CW	18k	2.0	43		KL4Ø	AM	MT	WA	65
26	4K3SK	2550M	1000 †	2.400G - 2.700G	CW	7000	.60	40†		KL4†	AM	MT	CO	85 *
27#	LD4036	2550M	1.0k	2400M-2700M	CW	8.0k	550m	38		KL4†	AM	MT	CO	85
28	4KM50SK	2625M	10000	2.550G - 2.700G	CW	20000	3.0	40		KL4	AM	MT	WA	260 *
29	4KM70SK	2625M	20000	2.550G - 2.700G	CW	21000	4.0	43.5		KL4	AM	MT	WA	90
30	7662	2750M	1.3M	2.700G - 2.800G	.003	110.0k	60	56		KL4	AM	MT	WA	65
31	VA87B	2750M	2.0M†	2.700G-2.800G	1.0m	120k	32 Ø	57		KL4Ø#	AM	MT	WA	65
32	L3668H	2800M	20000	2.700G - 2.900G		25000 Ø	2.8 Ø			KL4	OS		WA	35 △
33#	M4628	2830M	8.0M	2.800G - 2.860G	.002	180.0k	160			KL4	AM	FF	WA	
34	7663	2850M	1.3M	2.800G - 2.900G	.003	110.0k	60	56		KL4	AM	MT	WA	65
35	VA87C	2850M	2.0M†	2.800G-2.900G	1.0m	120k	32 Ø	60		KL4Ø#	AM	MT	WA	65
36	VA820	2850M	8000k	2.800G - 2.900G	1.0m	160k	128	47		KL4Ø#	AM	FF	WA	65
37	VA820C	2850M	8.0M	2.80G-2.90G	2.0m	140k	115	47		KL4Ø#	AM	FF	WA	65 §
38	VA820D	2850M	8.0M	2.80G-2.90G	2.0m	140k	115	47		KL4Ø#	AM	FF	WA	65 §
39	VA820E	2850M	8.0M	2.80G-2.90G	2.0m	140k	115	47		KL4Ø#	AM	FF	WA	65 §
40	VA820F	2850M	8.0M	2.80G-2.90M	2.0m	140k	115	47		KL4Ø#	AM	FF	WA	65 §
41#	PT1006	2.875G	200k*	2.700G-3.050G	2.0m	50k	16	44		KL4†#	AM	MT	WA	125 *
42	4K3SN	2925M	1000	2.800G - 3.050G	CW	8000	.60	40		KL4Ø	AM	MT	CO	85
43	4KP3SN	2925M	7500	2.800G - 3.050G	.02	15000	1.8	45		KL4Ø	AM	MT	CO	85
44#	K390	2.998G	8.0M	2.998G	1.5m	205k	105	42		KL4	AM		WA	75 §
45▼#	PT1015	3250M	250	3.00G-3.50G†	100m	12500	800mØ	43		KL4*	AM	MT	WA	28
46#	PT1010	3.250G	2.5k	3.000G-3.500G†	10m	12.5k	800m	65		KL4△#	AM	MT	WA	11
47#	PT1016	3.250G	20k	3.000G-3.500G	500m	27k	2.1	50		KL4△#	AM	MT	WA	100
48	SAS5310	3300M	60000	3.100G - 3.500G	.10	32000		50		KL4	AM	MT	WA	35
49#	VKC2403A1	4475M	2000	4.4G-4.55G	CW	10000	1.0	50		KL4	AM	MT	WA	13 §
50#	VKC2404A1	4.475G	5.8k	4.4G-4.55G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
51#	VKC2403A2	4.625G	2.0k	4.55G-4.7G	CW	10k	1.0	50		KL4	AM	MT	WA	13 §
52#	VKC2404A2	4.625G	5.8k	4.55G-4.7G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
53	4K3CB	4700M	1000	4.400G - 5.000G	CW	7900	.51	45		KL4	AM	MT	WA	60 *
54	JAN8634	4700M	1000	4.400G - 5.000G	CW	8000	.06			KL4†	AM	MT	WA	52
55	VA988A	4.700G	1000	4.400G-5.000G	CW	7800	650m	38		KL4Ø	AM	MT	WA	46
56	VA888	4700M	1200	4.400G - 5.000G†	CW	7500	.50	41		KL4†	AM	MT	WA	38
57	VA988	4.700G	1.3k	4.400G-5.000G				42		KL4†	AM	MT	WA	38
58	JAN8766	4.720G	1.0k†	4.440G-5.000G	CW	8.5k	600m			KL4§	OS	MT	WA	40
59#	VKC2403A3	4775M	2000	4.7G-4.85G	CW	10000	1.0	50		KL4	AM	MT	WA	13 §
60#	VKC2404A3	4.775G	5.8k	4.7G-4.85G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
61#	VKC2403A4	4.925G	2.0k	4.85G-5.0G	CW	10k	1.0	50		KL4	AM	MT	WA	13 §
62#	VKC2404A4	4.925G	5.8k	4.85G-5.0G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
63#	VKC2403A5	5.075G	2.0k	5.0G-5.15G	CW	10k	1.0	50		KL4	AM	MT	WA	13 §
64#	VKC2404A5	5.075G	5.8k	5.0G-5.15G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
65#	VA804	5137.5M	2.2k	4.400G - 5.875G	CW	10000	1.0	50		KL4	AM	MT	WA	14
66#	VA846	5200M	3000	4.40G-6.00G△	CW	12500	1.3	55		KL4#Ø	AM	MT	WA	20
67#	VKC2403A6	5.225G	2.0k	5.15G-5.3G	CW	10k	1.0	50		KL4	AM	MT	WA	13 §
68#	VKC2404A6	5.225G	5.8k	5.15G-5.3G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
69	VA988C	5.300G	1000	5.250G-5.350G	CW	7800	650m	44		KL4Ø	AM	MT	WA	40
70#	VKC2403A7	5.375G	2.0k	5.3G-5.45G	CW	10k	1.0	50		KL4	AM	MT	WA	13 §
71#	VKC2404A7	5.375G	5.8k	5.3G-5.45G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
72#	VKC2403A8	5.525G	2.0k	5.45G-5.6G	CW	10k	1.0	50		KL4	AM	MT	WA	13 §
73#	VKC2404A8	5.525G	5.8k	5.45G-5.6G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
74	VA808	5.6G	25k	5.3G-5.9G†	10m	22k	4.3	53		KL4†	AM	MT	WA	28 *
75#	VKC2403A9	5.675G	2.0k	5.6G-5.75G	CW	10k	1.0	50		KL4	AM	MT	WA	13 §
76#	VKC2404A9	5.675G	5.8k	5.6G-5.75G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
77#	VKC2404A10	5.8125G	5.8k	5.75G-5.875G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
78#	VKC2403A10	5813M	2000	5.75G-5.875G	CW	10000	1.0	50		KL4	AM	MT	WA	13 §
79	VA864M	5900M	10k	5.900G		15k	2.5	50		KL4Ø#	AM	FF	WA	103 *
80#	VKC2404A11	5.925G	5.8k	5.85G-6.0G	CW	14k	1.4	45		KL4Ø	AM	MT	WA	20
81	VA861	6150M	1100	5.900G - 6.400G†	CW	7000	.50	48		KL4†	AM	MT	WA	45
82	VA866	7800M	1000	7.100G - 8.500G†	CW	7000	.50	50		KL4†	AM	MT	WA	45
83	VA903	7800M	2500	7.100G - 8.500G†	CW	10000	.80	45		KL4†	AM	MT	WA	35
84	X3030	8000M	250000	8.000G	CW	110.0k	9.6	40		KL4	AM		WA	
85	SAX4705	8150M	8000	7.900G - 8.400G	CW	14000	1.7	45		KL4Ø	AM	MT	WA	100 *
86#	SY41	8500M	3000	8.000G - 9.000G*	CW	13000	.70	40		KL4	AM	FF	WA	90
87#	SY60	9500M	800	9.200G - 9.800G	.50	10000	.30	27		KL4*	AM	MT	WA	
88▼#	PT1130	9500M	1000	9.00G-10.00G†	500m	11000	1.0 Ø	46		KL4§	AM	MT	WA	39
89	VA845	9750M	5900	9G-10.5GØ;±50M▨	100m	16000	2.0	60.3		KL4§#	AM	MT	WA	17
90	VA909	9900M	300	9.200G - 10.60G†	CW	5000	.30	45		KL4†	AM	MT	WA	6.0
91	VA870	9.9G	2.1k	9.2G-10.6G†	400m	11k	640m	46		KL4#†	AM	MT	WA	23
92	VA896	10050M	300	9.200G - 10.60G†	CW	4700	.20	47		KL4†	AM	MT	WA	5.0
93	VA869A	10100M	500	10.00G - 10.20G	.40	6000	.525	52		KL4	AM	MT	WA	4.0
94	QKL1066	10400M	2.0k	10.200G-10.600G	CW	10.4k	1.1	65		KL4	AM	MT	WA	35
95	VA935	13500M	2000	13.50G	CW	9500	.70	60		KL4#†	AM	MT	WA	40
96	VA930	16500M	500 †	15.00G - 18.00GØ	CW	6000	.42	48.1		KL4†	AM	MT	WA	12.5
97	VKU7763	16.500G	1.000k	15.000G-18.000G	500m	8.000k	700m	42		KL4†	AM	MT	WA	12.5
98▼#	2AV41	2.050M	2800	1.850G-2.300G	CW	9000	1.1	37		KL5Ø	AM	MT	CO	72.75
99♦	VA812D	425M	15M	400M-450M	50m	190k	222	40		KL5Ø†	AM	MT	WA	1500
100	VA812E	425M	20M†	400M-450M	15m	240k	320	40		KL5Ø#	AM	MT	WA	1500
101▼#	1AV67	517.25M	33000	470M-566M	CW	22000	4.0	39		KL5Ø	AM	MT	CO	264
102♦	VA946A	518M	25k	470M-566M	CW	18k	5.1	46		KL5Ø	AM	MT	CO	240
103	VA946A/B	518M	25k	470M-566M	CW	21k	6.2	46		KL5Ø	AM	MT	CO	240
104	VA946H	518M	32000	470M-566M	CW	21000	6.1	48		KL5Ø#	AM	MT		350
105♦	VA950A	518M	40k	470M-566M	CW	24k	8.0	48.8		KL5Ø	AM	MT	CO	240
106#	VA950A/B	518M	45000	470M-566M		23000	6.8	48		KL5Ø	AM	M	CO	
107#	Z159-210Z	518M	55k	470M-566M	CW	25k	8.0	48		KL5Ø	AM	MT	CO	390
108#	VA953A/B	518M	58000	470M-566M	CW	25000	8.3	49.2		KL5Ø#	AM	MT	CO	590 △
109▼	VA953A/B/G	518M	58000	470M-566M	CW	25000	8.3	49.2		KL5Ø#	AM	MT	CO	590 △
110▼#	1AV97	519.25M	56000	470M-566M	CW	27000	5.5	40		KL5Ø	AM	MT	CO	286

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

										DESCRIPTION				
LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	VA943B	522M	10k	470M-574M	CW	13.5k	3.5	41		KL5Ø	AM	MT	CO	250
2	VA943A	522M	10.5k	470M-574M	CW	12.5k	2.7	43		KL5Ø#	AM	MT	CO	250 △
3▼#	1AV68	597.25M	33000	566M-698M	CW	22000	4.0	39		KL5Ø	AM	MT	CO	264
4▼#	1AV98	597.25M	56000	566M-698M	CW	27000	5.5	40		KL5Ø	AM	MT	CO	308
5▼#	1AV88	600M	20000	470M-690M	CW	16000	3.0	43		KL5	AM	MT	CO	240
6▼#	1AV83	600M	33000	470M-690M	CW	20000	5.0	43		KL5	AM	MT	CO	200
7	VA947A	632M	25k	566M-698M	CW	18k	5.1	46		KL5Ø	AM	MT	CO	240
8	VA947A/B	632M	25k	566M-698M	CW	21k	6.2	46		KL5Ø	AM	MT	CO	240
9	VA947H	632M	32000	566M-698M	CW	21000	6.1	48		KL5Ø#	AM	MT		325
10	VA947C	632M	32.5k	566M-698M	CW	19.5k	5.4	48		KL5Ø#	AM	MT	CO	350
11	VA951A	632M	40k	566M-698M	CW	24k	8.0	48.8		KL5Ø	AM	MT	CO	240
12#	Z169-210Z	632M	55k	566M-698M	CW	25k	8.0	48		KL5Ø	AM	MT	CO	300
13#	VA954A/B	632M	58000	566M-698M	CW	25000	8.3	49.2		KL5Ø#	AM	MT	CO	590 △
14▼	VA954A/B/G	632M	58000	566M-698M	CW	25000	8.3	49.2		KL5Ø#	AM	MT	CO	590 △
15#	VA944B	638M	10k	572M-704M	CW	13.5k	3.5	41		KL5Ø	AM	MT	CO	225
16	VA944A	699M	10.5k	572M-704M	CW	12.5k	2.7	43		KL5Ø#	AM	MT	CO	250 △
17▼#	1AV69	735.25M	33000	698M-890M	CW	22000	4.0	39		KL5Ø	AM	MT	CO	264
18▼#	1AV99	735.25M	56000	698M-890M	CW	27000	5.5	40		KL5Ø	AM	MT	CO	330
19	VA948H	779M	32000	698M-860M	CW	21000	6.1	48		KL5Ø#	AM	MT		275
20#	VA945B	781M	10k	702M-860M	CW	13.5k	3.5	41		KL5Ø	AM	MT	CO	215
21	VA945A	781M	10.5k	702M-860M	CW	12.5k	2.7	43		KL5Ø#	AM	MT	CO	250 △
22	VA948A	789M	25k	698M-890M	CW	18k	5.1	46		KL5Ø	AM	MT	CO	240
23	VA948A/B	789M	25k	694M-890M	CW	21k	6.2	46		KL5Ø	AM	MT	CO	240
24	VA952A	789M	40k	698M-890M	CW	24k	8.0	48.8		KL5Ø	AM	MT	CO	240
25	Z178/150Z	789M	40k	698M-890M	CW	24k	8.0	48		KL5Ø	AM	MT	CO	390
26#	Z179-210Z	789M	55k	694M-890M	CW	25k	8.0	48		KL5Ø	AM	MT	CO	220
27	VA948C	792M	32.5k	694M-890M	CW	19.5k	5.4	48		KL5Ø#	AM	MT	CO	350
28	VA955A/B	792M	58000	694M-890M	CW	25000	8.3	49.2		KL5Ø#	AM	MT	CO	590 △
29▼	VA955A/B/G	792M	58000	694M-890M	CW	25000	8.3	49.2		KL5Ø#	AM	MT	CO	590 △
30	VA853M	805M	100k	790M-820M		33k	6.0	50		KL5Ø#	AM	MT	WA	250 §
31	VA862A	805M	1.25M	805M	132m	86000 Ø	33	47†		KL5Ø	AM	FF	WA	800 §
32	X3068	850M	2500 †	800.0M - 900.0M	CW	12000	.95	35†		KL5△	AM	MT	CO	90
33	VA853	870M	75000 †	755.0M - 985.0M	CW	25000	8.3	50		KL5Ø	AM	MT	WA	225
34	VKP7758	920M	11.2k	755M-985M	CW	19k	2.0	36.1		KL5Ø△	AM	MT	CO	250
35	VA838	1.053G	300k	845M-1.36G†	40m	45k	19	50		KL5Ø	AM	MT	CO	
36	VKL7755	1270M	10M		.005	170k	182	38		KL5Ø	AM	FF	WA	
37▼#	PT1055	1285M	5000	1.230G-1.340G	50m	30000	10	46		KL5#	AM	MT	CO	127
38▼#	PT1150	1285M	12000	1.230G-1.340G	50m	46000	22 Ø	40		KL5#*	AM	MT	CO	127
39	L5548	1300M	300000	1.250G-1.350G	.006	60000	15	36		KL5	AM	MT	WA	150
40	VA838B	1.30G	350000	1.250G-1.350G	50m	45k	19	50		KL5Ø	AM	MT	CO	130
41	VA963A	1300M	5.25M	1.25G-1.35G	1.5m	140k	115	50		KL5Ø#	AM	MT	WA	200
42	L5081	1300M	30M	1.300G	.002	280k	325	45		KL5	AM	FF	WA	700 △
43	VKL7796	1320M	4.1M	1.295G-1.345G	150m	125k	90	40.8		KL5Ø#	AM	FF	WA	600
44	VKL7759	1.47G	55000	1.365G-1.578G	CW	23.5k	7.5	40		KL5Ø	AM	MT		200
45▼#	LD4066	1775M	13000	1.700G-1.850G	CW	18000	2.9	43		KL5#Ø	AM	MT	WA	77.16
46	5K50SE	1800M	12500	1.775G - 1.825G	CW	17500	2.1	53		KL5	AM			100
47	5KM50SJ	1950M	10000 *	1.700G - 2.400G	CW	18000	1.75	50		KL5	AM	MT	WA	95
48	5KM70SJ	1950M	20000 *	1.700G - 2.400G	CW	20000	3.0	43		KL5	AM	MT	WA	95
49	5KM70SI	2100M	20000	2.000G - 2.200G	CW	22000	3.2	50		KL5	AM	MT	WA	95
50	5K70SG	2105M	25000	2.090G - 2.120G	CW	23000	3.0	50		KL5Ø	AM	MT	WA	286 *
51▼#	LD4153	2116M	12000	2.100G-2.200G	CW	13000	1.78	43		KL5Ø	AM	MT	WA	132.2 §
52	5KM300SI	2250M	100000	2.100G - 2.400G	CW	38000	7.9	55†		KL5Ø#	AM	MT	WA	415 *
53	5K50SG	2275M	12500	2.250G - 2.300G	CW	17500	2.1	53		KL5	AM			100
54	5KM1000SG	2388M	450000 †	2.320G - 2.456G	CW	65000	16.5	55		KL5#Ø	AM	MT	WA	1050 *
55	5K70SH1	2450M	31500	2450M	CW	23000	3.0	55		KL5Ø#	AM	FF	WA	100
56#	2AV30	2450M	33k	2.440G-2.460G	CW	22000	3.3	50		KL5	AM	FF	WA	100
57#	E3762	2450M	33k	2.440G-2.460G	CW	22k	3.3	50		KL5	AM	FF	WA	100
58	5K300SK	2.542G	55k	2.385G-2.7G	CW	32k	5.7	53		KL5Ø	AM	MT	WA	
59	VA938A	2856M	4.0M	2.856G	.02	130k	91	50		KL5Ø	AM	FF	WA	
60	8568	2.856G	21M△	2.856G	900u	260k	270	50		KL5#	AM	FF	WA	150 §
61	VA988B	4.700G	1000	4.400G-5.000G	CW	7800	650m	35		KL5Ø	AM	MT	WA	46
62	VA908	4700M	10000	4.400G - 5.000G†	CW	15000	2.1	57		KL5Ø	AM	MT	WA	20
63	SAC167	5.65G	1.25M	5.4G-5.9G	4.8m	92k	56	47		KL5Ø	AM	MT	WA	150 △
64	VKC7777	6150M	400	5.900G-6.400G		3.4k	400m	37		KL5†	AM	M	WA	40
65	VA936N	6150M	750	5.90G-6.40G		5.0k	500m	37		KL5†	AM	MT	WA	45
66	VA936J	6.150G	1000	5.900G-6.400G	CW	7500	750m	40		KL5Ø	AM	MT	WA	35
67	VA936K	6150M	2.0k	5.90G-6.40G		6.0k	650m	37		KL5†	AM	MT	WA	70
68	VA936E	6.150G	3000	5.900G-6.400G	CW	10000	1.1	35		KL5Ø	AM	MT	WA	20
69	VA936G	6150M	3.0k	5.90G-6.40G		6.0k	1.05	43		KL5†	AM	MT	WA	70
70	VA936B	6.150G	3.500k	5.900G-6.400G	CW	9.000k	900m	50		KL5#Ø	AM	MT	WA	120
71	VA936A	6.150G	5.000k	5.900G-6.400G	CW	10k	1.3	50		KL5#Ø	AM	MT	WA	120
72	VA884B	6150M	14500	5.900G - 6.400G	CW	16500	2.4	52		KL5Ø	AM	MT	WA	200
73	VA884C	6150M	14500	5.900G - 6.400G	CW	16500	2.4	52		KL5Ø	AM	MT	WA	200
74#	LD4097	6175M	300	5.925G-6.425G	CW	5.5k	400m	40		KL5†	AM	MT	WA	60 *
75▼#	LD4117C/D	6175M	1700	5.925G-6.425G	CW	7000	600m	39		KL5†	AM	MT	WA	66.13 *
76▼#	LD4011A/B	6175M	3000	5.925G-6.425G	CW	8500	840m	45		KL5Ø	AM	MT	WA	22.04 §
77▼#	LD4134A/B	6175M	3000	5.925G-6.425G	CW	8500	840m	42		KL5†	AM	MT	WA	99.20 *
78▼#	LD4134C/D	6175M	3000	5.925G-6.425G	CW	8800	870m	40		KL5†	AM	MT	WA	110.2 *
79	VA884D	6175M	14500	5.92G-6.425G	CW	16500	2.4	51.1		KL5Ø#	AM		WA	30
80	VA883	7.800G	5.5k	7.100G-8.500G	CW	13.5k	1.5	50		KL5†	AM	FF	WA	77
81	VA876	7800M	18400	7.100G - 8.500G	CW	25000	4.0	53.6		KL5#Ø	AM	MT	WA	20
82	VA879	7800M	77000	7.100G - 8.500G†	CW	39000	6.0	51		KL5Ø	AM	MT	WA	75
83	VA949BM	7800M	200k	7.100G-8.500G		50k	10	60		KL5Ø#	AM	FF	WA	165
84	VA914B	8100M	530	7.800G-8.400G		4.6k	270m	50		KL5†	AM	M	WA	15
85	VKX7780V	8150M	160	7.900G-8.400G		3.3k	250m	40		KL5†	AM	M	WA	20
86	VKX7780S	8150M	500	7.900G-8.400G		4.3k	310m	45		KL5†	AM	M	WA	55
87	VA914	8150M	530	7.900G - 8.400G†	CW	4600	.27	50		KL5†	AM	MT	WA	15
88	VKX7780D	8150M	750	7.900G-8.400G		5.2k	420m	45		KL5†	AM	M	WA	36
89	VKX7780B	8.150G	1000	7.900G-8.400G	CW	7000	700m	50	35	KL5Ø	AM	MT	WA	50
90	VKX7780C	8150M	1.5k	7.900G-8.400G		6.5k	580m	45		KL5†	AM	M	WA	55
91	VKX7780J	8150M	2.5k	7.900G-8.400G		8.0k	780m	45		KL5†	AM	M	WA	55
92	VKX7780H/M	8150M	3.0k	7.900G-8.400G		8.5k	860m	45		KL5†	AM	M	WA	55
93	VA925B	8150M	8000	7.90G-8.40G		13k	1.65	52		KL5Ø#	AM	MT	WA	100
94#	VA925E	8150M	8000		CW	13000	1.75	50		KL5	AM	FF	WA	100 *
95	VA925	8150M	8300	7.900G - 8.400G†	CW	13000	1.65	52		KL5Ø	AM	MT	WA	90
96#	VKH2405A1	8150M	8500 †	7.90G-8.40G	CW	13500	1.8	53		KL5	AM	MT	WA	90 *
97	VA925C	8150M	10k	7.90G-8.40G		14k	1.95	57		KL5Ø#	AM	MT	WA	100
98	VKX7753	8150M	13k	7.90G-8.40G♦	CW	13500	3.17	43.5		KL5$#	AM	FF	WA	20
99	VA874E	9150M	100k	9.10G-9.20G	6.0m	43k	8.1	55		KL5†	AM	MT	WA	35
100	VA956	9250M	7500	8.500G - 10.00G	.20	15500	2.2	57.5		KL5	AM	MT	WA	50
101	VKX7769	9.250G	8.0k	8.500G-10.000G	100m	13.5k	1.57	50		KL5†	AM	MT	WA	35
102	VA874B	9300M	123000	9.0G-9.6GØ,±50MØ	6.0m	43000	8.5	54		KL5†	AM	MT	WA	35
103	VA927	9.5G	40k	9.0G-10G†	15m	28k	4.2	60		KL5†#	AM	MT	WA	45
104	VKX7750	9500M	50000	9.000G - 10.00G	.007	38000	6.8	42		KL5†	AM	MT	WA	35
105	V24E	9500M	60000	9.000G - 10.00G	.005	32000	5.2	55		KL5†	AM	MT	WA	25
106	VKX7751	9500M	80000 △	9.000G - 10.00G	.006	43000	8.2	41		KL5†	AM	FF	WA	35
107	VA932B	9800M	1.5k	9.00G-10.60G	30m	9.0k	700m	60		KL5†	AM	MT	WA	9.0
108	VA932	9.9G	1.5k	9.2G-10.6G†	30m	9.0k	700m	60		KL5†	AM	MT	WA	8.0
109	VA922	9950M	1200	8.600G - 11.30G†	CW	8200	.60	40		KL5†	AM	MT	WA	45
110	VA911	10250M	10000 †	10.00G - 10.50G	CW	16000	2.5	50†		KL5#Ø	AM	MT	WA	10

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	VKU7791	15.2G	1.2k	12.40G-18.00G		7.5k	500m	40		KL5†	AM	M	WA	55
2	VA921	18000M	10000	18.00G	CW	19000	2.85	50		KL5#Ø	AM	MT	WA	12
3	VA934	18000M	20000	18.00G	CW	22000	3.5	50		KL5#Ø	AM	MT	WA	12
4	VA928A	33000M	1.0k	30.00G-36.00G		12k	1.0	50		KL5Ø†	AM	M	WA	80 *
5	X841D	425M	2.5M	400.0M - 450.0M	.06	115.0k	66.6	33		KL6	AM	MT	WA	2800 *
6	X3076	805M	100000	805M	CW	28k	4.8	42		KL6Ø	AM			
7	VKL7800	1300M	10.0M	1.300G	7.0m	170k	170	36.6		KL6Ø#	AM	FF	WA	700
8	VKL7783	1.35G	2.5M	1.330G-1.380G	40m	120k	62.5	35		KL6Ø	AM			400
9▼#	TH2069	2800M	1.0M	2.700G-2.900G	7.0m	85000	50	50†		KL6	AM	MT	WA	85
10	VA87E	2800M	2.0M*	2.7G-2.9G		85k	55	53		KL6Ø	AM	MT	WA	335
11	VA839	2.8G	5.0M	2.700G-2.900G	2.0m	150k	125	39		KL6Ø#	AM	BB	WA	70
12#	PT1001	3.000G	6.0M	2.700G-3.300G†	4.0m	180k	110	47		KL6Ø#	AM	MT	WA	2560 *
13	VKL7760	1.70G	55000	1.578G-1.820G	CW	23.5k	7.5	40		KL7Ø	AM	MT		200
14	VKS7761	1.96G	55000	1.820G-2.100G	CW	23.5k	7.5	40		KL7Ø	AM	MT		180
15	X3075	2.110G	500000	2.110G	CW	64.5k	15.2	58		KL7Ø	AM			450
16	X3070	2.38G	450000	2.320G-2.456G	CW	63k	14.8	57		KL7Ø	AM	MT		450
17	X3033	3000M	53500		.25	42000	18	50†		KL7	AM	FF	WA	620 *
18	X3066	8.000G	100000	8.000G	CW	39k	6.7	40		KL7Ø	AM	MT		
19	VA961	8150M	8000	7.900G - 8.400G	CW	13000	1.75	35		KL7Ø	AM	MT	WA	20
20	EM1089	245M	.015 †	190.0M - 300.0M		1500	.004			MG	OS	VT	CO	3.5 △
21	.5P.2-.4	300M	.30	200.0M - 400.0M	CW	1600	.003			MG	OS	VT	CO	1.5
22	.5P.2-.4S	300M	.30	200.0M - 400.0M	CW	1600	.003			MG	OS	VT	CO	1.5
23	EM1300	375M	.10 †	250.0M - 500.0M	CW	1850	.08			MG	OS	VT	CO	2.0 △
24	.5P.25-.5	375M	500m	250M-500M	CW	2.1k	3.0m			MG	OS	VT	CO	1.5
25	.5P.25-.5S	375M	.50	250.0M - 500.0M	CW	2100	.003			MG	OS	VT	CO	1.5 *
26	1P.25-.5	375M	1.0	250.0M - 500.0M	CW	2200	.005			MG	OS	VT	CO	1.5 *
27	1P.25-.5S	375M	1.0	250M-500M	CW	2.2k	5.0m			MG	OS	VT	CO	1.5 *
28	EM1083B	422.5M	.03 †	320.0M - 525.0M		2000	.005			MG	OS	VT	CO	3.5 △
29	5P.35-.5	425M	5.0	350.0M - 500.0M	CW	2300	.01			MG	OS	VT	CO	1.5 *
30	5P.35-.5S	425M	5.0	350.0M - 500.0M	CW	2300	.01			MG	OS	VT	CO	1.5 *
31	7547	428M	3.6k	406.0M-450.0M	1.8m	55k	97			MG	OS	MT	CO	220
32	QK516	428M	2000k	406M-450M	1.8m	55000	97			MG	OS	MT	CO	220
33♦	JAN7547	435M	2.0M†	420M-450M	2.0m	62000	175 △			MG †#		MT	CO	220
34	L3500	470M	100	350.0M - 590.0M	1.0	3000	.15			MG	OS	MT	CO	18
35	L3456	470M	165 †	350.0M - 590.0M	CW	3000	.15			MG	OS	MT	CO	500
36	.25P.25-.75	500M	.25	250.0M - 750.0M	CW	2400	.005			MG	OS	VT	CO	1.5 *
37	.25P.25-.75S	500M	.25	250.0M - 750.0M	CW	2400	.005			MG	OS	VT	CO	1.5 *
38	1P.375-.75	562M	1.0	375.0M - 750.0M	CW	2200	.008			MG	OS	VT	CO	1.5 *
39	1P.375-.75S	562M	1.0	375.0M - 750.0M	CW	2200	.008			MG	OS	VT	CO	1.5 *
40	5P.4-.8	600M	5.0	400.0M - 800.0M	CW	2900	.015			MG	OS	VT	CO	1.5 *
41	5P.4-.8S	600M	5.0	400.0M - 800.0M	CW	2900	.015			MG	OS	VT	CO	1.5 *
42♦	L3714	600M	1000 †	475.0M-725.0M	250m	5000	.90			MG #		MT	WA	18 △
43	EM1151	625M	.05 †	500.0M - 750.0M		1500	.01			MG	OS	VT	CO	3.5 △
44	10P.5-.75	625M	8.0	500.0M - 750.0M	CW	2700	.015			MG	OS	VT	CO	1.5 *
45	10P.5-.75S	625M	10	500.0M - 750.0M	CW	2700	.015			MG	OS	VT	CO	1.5 *
46	.1P.35-1	675M	.10 †	350.0M - 1.000G	CW	1500	.003			MG	OS	VT	CO	1.0 *
47	.25P.35-1	675M	.25	350.0M - 1.000G	CW	2400	.005			MG	OS	VT	CO	1.5 *
48	.25P.35-1S	675M	.25	350.0M - 1.000G	CW	2400	.005			MG	OS	VT	CO	1.5 *
49	EM1088B	722.5M	.032 †	520.0M - 925.0M		2000	.01			MG	OS	VT	CO	3.5 △
50	.1P.5-1	750M	.10 †	500.0M - 1.000G	CW	500	.002			MG	OS	VT		1.0 *
51	EM1310	750M	.10 †	500.0M - 1.000G	CW	2000	.01			MG	OS	VT	CO	2.0 △
52	.5P.5-1	750M	.50 †	500.0M - 1.000G	CW	1400	.01			MG	OS	VT	CO	1.5 *
53	1P.5-1	750M	1.0	500.0M - 1.000G	CW	2200	.008			MG	OS	VT	CO	1.5
54	1P.5-1R	750M	1.0 †	500.0M - 1.000G	CW	2000	.01			MG	OS	VT	CO	1.0 *
55	1P.5-1S	750M	1.0	500.0M - 1.000G	CW	2200	.008			MG	OS	VT	CO	1.5 *
56	2P.5-1	750M	2.0	500.0M - 1.000G	CW	2200	.01			MG	OS	VT	CO	1.5 *
57	2P.5-1S	750M	2.0	500M-1.0G	CW	2.2k	10m			MG	OS	VT	CO	1.5 *
58	DX343	750M	100k	735.0M - 775.0M	.005	20000	15			MG	OS	MT	CO	25
59	L3501	782M	100	590.0M - 975.0M	1.0	3000	.15			MG	OS	MT	CO	18
60	L3459	782M	165 †	590.0M - 975.0M	CW	3000	.15			MG	OS	MT	CO	500
61	EM747	800M	.05 †	400.0M - 1.200G	CW	2100	.01			MG	OS	VT	CO	3.5 △
62	.25PL.4-1.2	800M	.25	400.0M - 1.200G	CW	2400	.005			MG	OS	VT	CO	1.5
63	.25PL.4-1.2S	800M	.25	400.0M - 1.200G	CW	2400	.005			MG	OS	VT	CO	1.5 *
64	EM1313	800M	.30 †	450.0M - 1.150G		2200	.015			MG	OS	VT	CO	2.0 △
65	DX342	850M	500k	815.0M - 890.0M	.002	26000	60			MG	OS	MT	CO	25
66	10P.75-1	875M	10	750.0M - 1.000G	CW	2400	.015			MG	OS	VT	CO	1.5
67	10P.75-1S	875M	10	750.0M - 1.000G	CW	2400	.015			MG	OS	VT	CO	1.5 *
68▼#	BM25LD	896M	25000	886M-906M	CW	12500	2.4			MG	OS	FF	WA	22 §
69#	BM25LB	896M	30k	886M-906M	CW	14.5k	3.0			MG	OS	FF	WA	22 §
70	EM1153C	900M	.02 †	600.0M - 1.200G		2000	.006			MG	OS	VT	CO	3.5 △
71	5PL.6-1.2	900M	5.0	600.0M - 1.200G	CW	2800	.025			MG	OS	VT	CO	1.5 *
72	5PL.6-1.2S	900M	5.0	600.0M - 1.200G	CW	2800	.025			MG	OS	VT	CO	1.5 *
73	EM1097	900M	5.0 †	600.0M - 1.200G		2700	.03			MG	OS	VT	CO	1.4 △
74	EM15LS	915M	25000	900.0M - 930.0M	CW	12000	3.0			MG	OS	FF	WC	22
75#	LD945	915M	25k	900M-930M	CW	12k	3.0			MG	OS	FF	WC	22
76#	1M70A	915M	30k	905M-925M	CW	12500	2.8			MG	OS	FF	CO	16
77#	1M99	915M	30k	890M-940M	CW	12.5k	2.8			MG	OS	FF	CO	22.1
78♦	8684	915M	30000	900.0M-930.0M	CW	14000	3.0			MG Ø#		FF	WA	16
79#	BM25LC	915M	30k	905M-925M	CW	14.5k	3.0			MG	OS	FF	WA	22 §
80	.5P.5-1.5	1.0G	500m†	500M-1.5G	CW	2.5k	15m			MG	OS	VT	CO	1.5 *
81	.5PL.5-1.5	1000M	5.0	500.0M - 1.500G	CW	2400	.01			MG	OS	VT	CO	1.5 *
82	.5PL.5-1.5S	1000M	5.0	500.0M - 1.500G	CW	2400	.01			MG	OS	VT	CO	1.5 *
83	EM1150	1000M	40 †	980.0M - 1.020G		2500	.06			MG	OS	VT	CO	3.5 △
84	EM1311	1000M	50 †	980.0M - 1.020G		2500	.065			MG	OS	VT	CO	3.0 △
85	EM1081	1050M	10	900.0M - 1.200G	CW	2400	.022			MG	OS	VT	CO	3.5 △
86	DX450	1050M	300k	1000M-1100M	2.0m	25000	30			MG	OS	MT	CO	25
87	EM1092	1100M	.50 †	800.0M - 1.400G		2200	.02			MG	OS	VT	CO	3.5 △
88	100L1-1.2	1100M	100 †	1.00G-1.20G	CW	4000	70m△			MG	OS	VT	CO	4.5 *
89	2PL.75-1.5	1125M	2.0	750.0M - 1.500G	CW	2200	.015			MG	OS	VT	CO	1.5
90	2PL.75-1.5S	1125M	2.0	750.0M - 1.500G	CW	2200	.015			MG	OS	VT	CO	1.5 *
91	100L1.05-1.25	1150M	100 †	1.05G-1.25G	CW	4100	70m△			MG	OS	VT	CO	4.5 *
92	100L1.05-2.5	1150M	100 †	1.05G-1.25G	CW	4.1k				MG	OSC	VT		
93	JANDOD023	1185M	36m†	885M-1.485G	CW	1.7k	2.0m			MG	OS	VT	CO	4.0 △
94♦#	MCF1329	1220M	2.4M†	1.217G-1.223G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
95	QKH1579	1235M	360	1.220G-1.350G	1.0m	28k	46			MG	OS	MT	CO	20
96	L3502	1237M	900 †	975.0M - 1.500G	.25	4500	.70			MG	OS	MT	WA	18 △
97♦	L3465	1237M	1800 †	975.0M-1.500G	.25	5500	.90			MG #		MT	WA	18 △
98	10L1-1.5	1250M	10	1.000G - 1.500G	CW	2500	.025			MG	OS	VT	CO	1.5
99	10L1-1.5S	1250M	10	1.000G - 1.500G	CW	2500	.025			MG	OS	VT	CO	1.5 *
100	QK358	1250M	1000k	1.25G-1.35G	1.3m	53000	50			MG	OS	MT	WA	90
101	QKH665	1267M	5000k	1.25G-1.285G	1.8m	72000	150			MG	OS	FF	CO	125
102♦#	MCF1330	1272M	2.4M†	1.269G-1.275G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
103♦#	F1088	1275M	2.4M†	1.270G-1.280G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
104#	M5051	1.28G	2.0M†△	1.25G-1.31G	1.5m	45k	150 Ø			MG	OS	MT	WA	190 *
105#	M5084	1280M	2.3M	1250M-1310M	1.5m	45k	160			MG	OS	MT	WA	190 *
106#	M5086	1280M	2.3M	1250M-1310M	1.5m	45k	160			MG	OS	MT	WA	190 *
107#	M586	1.28G	2.6M	1.26G-1.3G	1.5m	42k	150			MG	OS	FF	WA	22 §
108	5J26	1285M	400	1.220G-1.350G	2.0m	31k	60			MG	OS	MT	CO	20
109	QKH1560	1285M	7.0k	1.250G-1.320G	1.8m	71k	150			MG	OS	MT	WA	140
110	JAN5J26	1.285G	400k△	1.220G-1.350G	2.5m	34k	55			MG	OS	MT	CO	20

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1♦#	TH3061	1285M	500k†	1.220G-1.350G	1.2m	27.5k	56 Ø			MG †	OS	MT	WA	
2	DX267	1.285G	550k	1.22G-1.35G	2.5m	34k	60			MG	OS	MT	CO	22
3	DX286	1285M	750k	1220M-1350M	1.0m	32000	70			MG	OS	MT	CO	25
4♦#	F1119	1285M	2.4M†	1.282G-1.288G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
5♦#	F1089	1287M	2.4M†	1.280G-1.295G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
6▼#	TH3069	1290M	2.2M†	1.270G-1.310G	1.5m	42000	160			MG	OS	MT	WA	29 §
7#	M565	1.29G	5.0M	1.215G-1.365G	2.5m	52kØ	260			MG	OS	FF	WA	72 §
8♦#	MCV1352	1295M	2.2M†	1.270G-1.320G	1.25m	40k	155 Ø			MG †	OS	MT	WA	
9♦#	MC567	1295M	2.4M†	1.220G-1.370G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
10♦#	TH3057	1296M	2.4M†	1.293G-1.299G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
11♦#	MCF1492	1298M	2.4M†	1.296G-1.300G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
12	6517	1300M	1.25k	1.250G-1.350G	1.3m	70k	60			MG	OS	MT	WA	90
13	7484A	1300M	2.0k	1.125G-1.350G	1.2m	60k	90			MG	OS	MT	WA	90
14	QKH470	1300M	2.4k	1.250G-1.350G	1.2m	75k	100			MG	OS	MT	WA	90
15	QKH1589	1300M	8.1k	1.250G-1.350G	1.8m	71k	150			MG	OS	MT	WA	140
16	QKH942	1300M	9.0k	1.250G-1.350G	1.8m	71k	150			MG	OS	HT	WA	140
17	QKH1042	1300M	9.0k	1.250G-1.350G	1.8m	71k	150			MG	OS	MT	WA	140
18#	YJ1230	1300M	9000	1.25G-1.35G	1.8m	75000	160 △			MG	OS	MT	WA	120
19	YJ1150	1.3G	750k	1.22G-1.35G	2.5m	29k	79			MG	OS	MT	WA	
20	JAN6517	1300M	1.0M	1.250G-1.350G	1.3m	70000	60			MG	OS	MT	WA	90
21♦#	F1090	1300M	2.4M†	1.295G-1.305G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
22♦#	F1127	1305M	2.4M†	1.302G-1.308G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
23♦#	F1091	1310M	2.4M†	1.305G-1.315G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
24♦#	MCF1331	1312M	2.4M†	1.309G-1.315G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
25♦#	F1120	1315M	2.4M†	1.312G-1.318G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
26♦#	F1092	1320M	2.4M†	1.315G-1.325G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
27♦#	F1121	1325M	2.4M†	1.322G-1.328G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
28#	M554	1.33G	2.6M*	1.295G-1.365G	1.5m	42k	150			MG	OS	FF	WA	22 §
29♦#	F1093	1332M	2.4M†	1.325G-1.340G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
30	ZM6231	1.335G	90 †	1.22G-1.45GØ	CW	3.4k	70m			MG	OS	VT	CO	7.0 △
31#	M5052	1.335G	2.0M†△	1.305G-1.365G	1.5m	45k	150 Ø			MG	OS	MT	WA	190 *
32#	M5085	1335M	2.3M	1305M-1365M	1.5m	45k	160			MG	OS	MT	WA	190 *
33#	M5087	1335M	2.3M	1305M-1365M	1.5m	45k	160			MG	OS	MT	WA	190 *
34	QKH666	1335M	5000k	1.32G-1.35G	1.8m	72000	150			MG	OS	FF	CO	125
35♦#	MCV1353	1342M	2.2M†	1.315G-1.370G	1.25m	40k	155 Ø			MG †	OS	MT	WA	
36♦#	F1094	1345M	2.4M†	1.340G-1.350G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
37♦#	MCF1493	1348M	2.4M†	1.346G-1.350G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
38▼#	TH3070	1350M	2.2M†	1.330G-1.370G	1.5m	42000	160			MG	OS	MT	WA	29 §
39♦#	F1128	1350M	2.4M†	1.347G-1.353G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
40♦#	F1095	1355M	2.4M†	1.350G-1.360G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
41♦#	TH3042	1360M	2.4M†	1.355G-1.365G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
42♦#	F1096	1365M	2.4M†	1.360G-1.370G	1.25m	40k	152 Ø			MG †	OS	MT	WA	
43	100L1.25-1.5	1375M	100 †	1.25G-1.50G	CW	3600	70m△			MG	OS	VT	CO	4.5 *
44	EM1320	1500M	.10 †	1.000G - 2.000G	CW	2000	.01			MG	OS	VT	CO	2.0 △
45	.5L1-2	1500M	.50 †	1.000G - 2.000G	CW	1400	.01			MG	OS	VT	CO	1.5 *
46	1L1-2R	1500M	1.0 †	1.000G - 2.000G	CW	2000	.01			MG	OS	VT	CO	1.0 *
47	2L1-2	1500M	2.0	1.000G - 2.000G	CW	2200	.015			MG	OS	VT	CO	1.5
48	2L1-2S	1500M	2.0	1.000G - 2.000G	CW	2200	.015			MG	OS	VT	CO	1.5 *
49	3L1.4-1.6	1500M	3.0 †	1.400G - 1.600G	CW	1100	.015			MG	OS	VT	CO	1.0 *
50	5L1-2	1500M	5.0	1.000G - 2.000G	CW	2400	.02			MG	OS	VT	CO	1.5 *
51	5L1-2S	1500M	5.0	1.000G - 2.000G	CW	2400	.02			MG	OS	VT	CO	1.5 *
52	10L1.5-2	1500M	10	1.500G - 2.000G	CW	2200	.025			MG	OS	VT	CO	1.5
53	10L1.5-2S	1.5G	10	1.5G-2.0G	CW	2.2k	25m			MG	OS	VT	CO	1.5 *
54	.5PL.8-2.4	1600M	5.0	800.0M - 2.400G	CW	2400	.01			MG	OS	VT	CO	1.5 *
55	.5PL.8-2.4S	1600M	5.0	800.0M - 2.400G	CW	2400	.01			MG	OS	VT	CO	1.5 *
56	7452A	1.6G	70k	1.44G-1.76G	2.15m	24k	12.6			MG	OS	MT	WA	1.6
57	100L1.5-1.8	1650M	100 †	1.50G-1.80G	CW	3500	75m△			MG	OS	VT	CO	4.5 *
58	BLM148	1.65G	10k	1.64G-1.66G	300m	9.0k	5.2			MG	OS	MT	WA	1.5
59	BLM154	1.65G	10k	1.6G-1.7G	500m	20k	20			MG	OS	MT	WA	480m
60	EM1323	1750M	.30 †	1.000G - 2.500G		2200	.012			MG	OS	VT	CO	2.0 △
61	100L1.6-2	1800M	100 †	1.60G-2.00G	CW	4000	70m△			MG	OS	VT	CO	4.5 *
62	L3503	1925M	900 †	1.500G - 2.350G	.25	4600	.70			MG	OS	MT	WA	18 △
63♦	L3464	1925M	1800 †	1.500G-2.350G	.25	5500	.90			MG #		MT	WA	18 △
64	3L1.8-2.1	1950M	3.0 †	1.800G - 2.100G	CW	1100	.015			MG	OS	VT	CO	1.0 *
65	.5LS1-3	2000M	5.0	1.000G - 3.000G	CW	2400	.01			MG	OS	VT	CO	1.5
66	.5LS1-3S	2000M	5.0	1.000G - 3.000G	CW	2400	.01			MG	OS	VT	CO	1.5 *
67	JANDOD024	2014M	36m†	1.420G-2.607G	CW	1.7k	20m			MG	OS	VT	CO	4.0 △
68	EM1165	2.039G	50m†	1.59G-2.47G		1.9k	10m			MG	OS	VT	CO	2.5 △
69	8512	2100M	500m†	1.05G-3.15G	CW	2.5k	20m			MG	OS	VT	WA	1.5 △
70	EM1091A	2200M	20 †	2.100G - 2.300G		2550	.06			MG	OS	VT	CO	3.5 △
71	.5LS1.5-3	2250M	.50 †	1.500G - 3.000G	CW	1400	.01			MG	OS	VT	CO	1.5 *
72	EM1321	2250M	.50 †	1.500G - 3.000G		2000	.015			MG	OS	VT	CO	2.0 △
73	2LS1.5-3	2250M	2.0	1.500G - 3.000G	CW	2200	.015			MG	OS	VT	CO	1.5
74	2LS1.5-3S	2.25G	2.0	1.5G-3.0G	CW	2.2k	15m			MG	OS	VT	CO	1.5
75	EM1091	2250M	35 †	2.200G - 2.300G		2500	.05			MG	OS	VT	CO	3.0 △
76	EM1331	2250M	35 †	2.200G - 2.300G	CW	2500	.06			MG	OS	VT	CO	3.5 △
77	100S2-2.6	2300M	100 †	2.00G-2.60G	CW	3600	80m△			MG	OS	VT	CO	4.5 *
78	.5LS1.2-3.6	2400M	5.0	1.200G - 3.600G	CW	2400	.01			MG	OS	VT	CO	1.5 *
79	.5LS1.2-3.6S	2400M	5.0	1.200G - 3.600G	CW	2400	.01			MG	OS	VT	CO	1.5 *
80#	5609	2.450G	80	2.425G-2.475G	CW	1.45k	125m			MG	OS	FF	CO	3.31
81	5609A	2450M	80	2.425G-2.475G	CW	1.6k	150m			MG	OS	FF	CO	3.3
82#	2M76	2450M	200	2.420G-2.480G	CW	2.5k	150m			MG	OS	FF	CO	3.5
83#	7090	2450M	200	2.425G-2.475G	CW	1700	230 △			MG	OS	FF	WA	5.3
84	QKH1744	2450M	500	2.44G-2.46G	CW	2800	280m			MG	OS	FF	WA	3.0
85▼#	2M140	2450M	560	2.440G-2.460G	CW	4000	250			MG	OS	FF	WA	2.7
86▼#	2M152	2450M	560	2.440G-2.460G	CW	4500	250m			MG	OS	FF	CO	2.6
87#	2M141	2450M	575	2.44G-2.46G	CW	3500	350m			MG	OS	FF	WA	3.2
88#	2M143	2450M	575	2.44G-2.47G	CW	3500	350m			MG	OS	FF	WA	3.1
89#	2M151	2450M	620	2.440G-2.460G	CW	3200	350m			MG	OS	FF	CO	8.0
90♦	L5261A	2450M	625	2.440G-2.460G	CW	3500	.38			MG †		FF		3.0
91#	2M45	2450M	650	2.44G-2.46G	CW	3800	350m			MG	OS	FF	WA	3.3
92▼#	2M151A	2450M	660	2.440G-2.460G	CW	3500	350m			MG	OS	FF	CO	3.2
93#	2M150	2450M	700	2.44G-2.46G	CW	3800	350m			MG	OS	FF	WA	3.4
94#	2M41	2450M	750	2.420G-2.480G	CW	4.0k	300m			MG	OS	FF	CO	3.9
95#	2M66	2450M	750	2.425G - 2.475G	CW	4000	.30			MG	OS	FF	CO	2.9 §
96	DX452	2450M	750	2430M-2470M	CW	4000	300m			MG	OS	FF	WA	2.0
97♦	L5201	2.45G	750	2.42G-2.48G	CW	3.6k	575m			MG †		FF		5.0
98♦	L5260A	2450M	750	2.440G-2.460G	CW	3550	.40			MG †		FF		3.0
99	QKH1381	2450M	750	2.435G-2.465G	CW	4.5k	1.2			MG	OS	FF	WA	1.5
100	QKH1777	2450M	750	2.44G-2.46G	1.0	4000	300m			MG	OS	FF	WA	3.5
101#	2M53	2450M	800	2.420G-2.480G	CW	4000	350m			MG	OS	FF	CO	3.74
102	DX453	2450M	800	2430M-2470M	CW	4000	320m			MG	OS	FF	WA	5.0
103#	2M53H	2450M	830	2.44G-2.46G	CW	4500	350m			MG	OS	FF	WA	3.64
104#	2M57	2450M	830	2.440G-2.460G	CW	4.0k	350m			MG	OS	FF	CO	9.0
105▼#	2M57A	2450M	830	2.440G-2.460G	CW	4500	350m			MG	OS	FF	CO	3.7
106#	2M161	2450M	830	2.44G-2.46G	CW	4500	350m			MG	OS	FF	WA	3.5
107#	2M163	2450M	840	2.44G-2.47G	CW	4500	350m			MG	OS	FF	WA	3.5
108	2M88	2450M	900	2430M-2470M	CW	4000	350m			MG	OS	FF	WA	7.5
109	DX401	2450M	900	2435M-2465M	CW	4000	350mØ			MG	OS	FF	WA	6.8
110	YJ1420	2450M	900	2430M-2470M	CW	4000	350m			MG	OS	FF	WA	7.5

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	2M21	2450M	950	2.425G - 2.475G	CW	6500	1.6			MG	OS	FF	CO	
2♦	L3189	2450M	1000 †	2.420G-2.475G	CW	7000	.325			MG †		FF		7.0
3♦	L5001	2450M	1.0k	2.440G-2.470G	CW	3600	750m			MG †		FF		4.3
4▼#	2M121	2450M	1200	2.440G-2.460G	CW	4000	550			MG	OS	FF	WA	4.3
5	DX206	2450M	1200	2.425G - 2.475G	CW	5600 Ø	.38 Ø			MG	OS	FF	WC	9.25
6	DX260	2450M	1200	2.425G - 2.475G	CW	5600 Ø	.38 Ø			MG	OS	FF	WC	9.25
7	YJ1490	2450M	1200	2.43G-2.47G	CW	4000	570m			MG	OS	FF	WA	3.5
8▼#	2M164	2450M	1300	2.440G-2.460G	CW	3500	550m			MG	OS	FF	CO	5.5
9#	YJ1280	2450M	1300	2.425G-2.475G	CW	10000	800m△			MG	OS	FF	WC	5.1
10	YJ1480	2450M	1400	2.43G-2.47G	CW	5900	370m			MG	OS	FF	WA	4.0
11#	2M69	2450M	1500	2.420G-2.480G	CW	2500	1.1			MG	OS	FF	CO	6.0
12#	2M131	2450M	1600	2.44G-2.47G	CW	4000	750m			MG	OS	FF	WA	4.2
13♦#	MCF1165	2450M	1.6k†	2.425G-2.475G	CW	3.65k	800mØ			MG †	OS		WA	
14♦#	MCF1166	2450M	1.6k†	2.425G-2.475G	CW	3.65k	800mØ			MG †	OS		WA	
15#	2M47	2450M	1700	2420M-2480M	CW	3.8k	800m			MG	OS	FF	CO	5.5
16♦	2M63	2.45G	2.5k	2.42G-2.48G	CW	8.0k	700m			MG #		FF	CO	2.7
17♦	L3858	2450M	2500	2.420G-2.470G	CW	7200	.60			MG †		FF	WA	2.12
18♦	YJ1160	2450M	2500	2.425G-2.475G	CW	5000	800m△			MG #		FF	CO	11.2
19#	YJ1162	2450M	2500	2.425G-2.475G	CW	5000	800m			MG	OS	FF	CO	17.4
20	YJ1440	2450M	2500	2.43G-2.47G	CW	5600	680m			MG	OS	FF	WA	4.0
21#	MG86T1	2450M	3300	2425M-2475M	CW	6.0k	1.5			MG	OS	FF		3.0
22#	2M12	2450M	5000	2420M-2480M	CW	7.5k	1.3			MG	OS	FF	CO	2.2 §
23♦	2M60A	2.45G	5.0k†	2.42G-2.48G	CW	7.0k	1.6			MG Ø#		FF	CO	
24♦#	F1123	2450M	5.0k†	2.425G-2.475G	CW	5.2k	1.6 Ø			MG †	OS		WA	
25♦#	MCF1327	2450M	5.0k†	2.425G-2.475G	CW	5.2k	1.6 Ø			MG †	OS		WA	
26	YJ1191	2450M	5000	2.425G - 2.475G	CW	7500	1.25			MG	OS	FF	CO	25
27#	2M68	2450M	5500	2.420G-2.480G	CW	6500	1.4			MG	OS	FF	CO	
28#	MG1500	2450M	16000 △	2.40G-2.50G	CW	4000	3.0 △			MG	OS	FF	CO	5.0
29	EM1332	2500M	.10 †	2.000G - 3.000G		2000	.01			MG	OS	VT	CO	2.0 △
30	10S2-3	2500M	10	2.000G - 3.000G	CW	2300	.025			MG	OS	VT	CO	1.5
31	10S2-3S	2500M	10	2.000G - 3.000G	CW	2300	.025			MG	OS	VT	CO	1.5 *
32	EM1093	2600M	1.75 †	2.475G - 2.725G		1200	.02			MG	OS	VT	CO	3.5 △
33	JAN2J34	2720M	35k†	2.700G-2.740G	2.0m	22k	30			MG	OS	FF	CO	2.25
34	2J34	2720M	240k	2.70G-2.74G	2.0m	20000	30			MG	OS	FF	CO	2.30
35	QKH733	2720M	400k	2.70G-2.74G	700u	26000	50			MG	OS	FF	CO	5.00
36	4J35	2720M	800000	2.700G - 2.740G	.001	30000	70			MG	OS	FF	CO	5.0
37#	M1227	2730M	500000 †	2.71G-2.75G	1.0m	30000	70			MG	OS	FF	CO	5.3 △
38	10S2.5-3R	2.75G	10 †	2.5G-3.0G	CW	1.8k	25m			MG	OS	VT	CO	1.0 *
39	100S2.5-3	2750M	100	2.500G - 3.000G	CW	3600	.08			MG	OS	VT	CO	4.0 *
40	CV2362	2.758G	1.15M	2.75G-2.765G	1.25m	40k	80			MG	OS	FF	WA	13 §
41	JAN2J33	2760M	35k†	2.740G-2.780G	2.0m	22k	30			MG	OS	FF	CO	2.25
42	2J33	2760M	240k	2.74G-2.78G	2.0m	20000	30			MG	OS	FF	CO	2.30
43	QKH732	2760M	480k	2.74G-2.78G	700u	26000	50			MG	OS	FF	CO	5.00
44#	M1222	2.760G	500k†	2.740G-2.780G	1.0m	30k	70			MG	OS	FF	CO	
45	4J34	2760M	800000	2.740G - 2.780G	.001	30000	70			MG	OS	FF	CO	5.0
46#	CV2363	2.773G	1.15M	2.765G-2.78G	1.25m	40k	80			MG	OS	FF	WA	13 §
47	5S2.7-2.85	2775M	5.0 †	2.700G - 2.850G	CW	1000	.025			MG	OS	VT	CO	1.5 *
48	7529	2775M	2.52k	2.700G-2.850G	800u	62k	115			MG	OS	MT	WA	66
49♦	JAN7529M	2775M	3.5M△	2.700G-2.850G	.001	70000	130			MG #		MT	WA	66
50	QK327	2775M	3500k	2.70G-2.85G	800u	62000	115			MG	OS	MT	WA	66
51#	CV2364	2.788G	1.15M	2.78G-2.795G	1.25m	40k	80			MG	OS	FF	WA	13 §
52	JAN5586	2800M	400 †	2.700G-2.900G	1.0m	32500	70			MG	OS	MT	CO	
53	8798	2800M	450	2.700G-2.900G	1.0m	30k	40			MG	OS	MT	CO	6.25
54▼#	M5083A	2800M	500 †	2.700G-2.900G	1.2m	32000	70 △			MG	OS	MT	CO	6.5
55	QKH1569	2800M	1.0k	2.700G-2.900G	1.0m	50k	50			MG	OS	MT	WA	65
56	JAN2J32	2800M	35k†	2.780G-2.820G	2.0m	22k	30			MG	OS	FF	CO	2.25
57	2J32	2800M	240k	2.78G-2.82G	2.0m	20000	30			MG	OS	FF	CO	2.30
58	DX276	2.8G	450k	2.7G-2.9G	1.0m	32k	50			MG	OS	MT	CO	5.5
59	QKH731	2800M	480k	2.78G-2.82G	700u	26000	50			MG	OS	FF	CO	5.00
60	JAN8798	2800M	750000 △	2.700G-2.900G	1.1m	32000	70			MG	OS	MT	CO	6.5
61#	M5094	2800M	750k	2.70G-2.90G		30k	64			MG	OS	FF	CO	
62	4J33	2800M	800000	2.780G - 2.820G	.001	30000	70			MG	OS	FF	CO	5.0
63#	5586	2800M	800000	2.70G-2.90G	500u	30000	70			MG		MT		
64	DX481	2800M	800k	2.70G-2.90G	1.0m	32000	70			MG	OS	MT	CO	5.5
65#	3M95	2800M	4.7M	2.750G - 2.850G	.001	75000	135			MG	OS	MT	WA	
66#	M525	2803M	1.15k*	2.750G-2.855G	1.25m	40k	80			MG	OS	FF	WA	12
67	4J53	2803M	800000	2.793G - 2.813G	.001	30000	70			MG	OS	FF	CO	6.0 §
68#	CV2365	2.803G	1.15M	2.795G-2.81G	1.25m	40k	80			MG	OS	FF	WA	13 §
69	6410A	2805M	3.6k	2.750G-2.860G	1.0m	71k	130			MG	OS	FF	WA	57
70♦	JAN6410A	2805M	4500 †	2.750G-2.860G	.001	75000	135			MG #		FF	WA	58
71	7182	2.805G	2.5M	2.75G-2.86G	1.5m	36k	185			MG	OS	FF	WA	9.75 §
72#	M566	2.805G	2.5M	2.75G-2.86G	1.5m	41.5k	176			MG	OS	FF	WA	9.75 §
73▼#	M5133	2805M	2.5M	2.750G-2.860G	1.5m	38500	145			MG	OS	FF	WA	
74	QK338A	2805M	4500k	2.75G-2.86G	1.0m	71000	130			MG	OS	FF	WA	57
75#	M1223	2.810G	500k†	2.790G-2.830G	1.0m	30k	70			MG	OS	FF	CO	
76#	CV2366	2.818G	1.15M	2.81G-2.825G	1.25m	40k	80			MG	OS	FF	WA	13 §
77♦	M159A	2.825G	1.5M	2.750G-2.900G	700u	55k	86			MG #		MT	WA	66.2
78#	CV2367	2.833G	1.15M	2.825G-2.84G	1.25m	40k	80			MG	OS	FF	WA	13 §
79	JAN2J31	2840M	35k†	2.820G-2.860G	2.0m	22k	30			MG	OS	FF	CO	2.25
80	2J31	2840M	240k	2.82G-2.86G	2.0m	20000	30			MG	OS	FF	CO	2.30
81	QKH730A	2840M	480k	2.82G-2.86G	700u	26000	50			MG	OS	FF	CO	5.00
82	4J32	2840M	800000	2.820G - 2.860G	.001	30000	70			MG	OS	FF	CO	5.0
83#	CV2368	2.848G	1.15M	2.84G-2.855G	1.25m	40k	80			MG	OS	FF	WA	13 §
84#	M1224	2.850G	500k†	2.830G-2.870G	1.0m	30k	70			MG	OS	FF	CO	
85♦	M4543	2855M	4800k	2.840G-2.870G	.001	75000	135			MG †		MT	WA	67
86	QKH898	2856M	3.6k	2.851G-2.861G	800u	48k	240			MG	OS	MT	WA	110
87#	M5028	2856M	5.0M	2.851G - 2.861G		48000	240			MG	OS	MT	WA	110
88	6406A	2880M	1.05k	2.850G-2.910G	700u	52k	85			MG	OS	FF	WA	40
89	JAN2J30	2880M	35k†	2.860G-2.900G	2.0m	22k	30			MG	OS	FF	CO	2.25
90	2J30	2880M	240k	2.86G-2.90G	2.0m	20000	30			MG	OS	FF	CO	2.30
91	QKH729	2880M	480k	2.86G-2.90G	700u	26000	50			MG	OS	FF	CO	5.00
92	4J31	2.88G	800k	2.86G-2.9G	1.0m	30k	70			MG	OS	FF	CO	5.0
93#	M595B	2880M	1.0M	2.860G - 2.900G	.001	30000	70			MG	OS	FF	CO	6.0
94#	M1225	2.890G	500k†	2.870G-2.910G	1.0m	30k	70			MG	OS	FF	CO	
95	100S2.6-3.2	2900M	100 †	2.60G-3.20G	CW	3500	75m△			MG	OS	VT	CO	3.5 *
96	ZM6276	2.9G	100 †	2.6G-3.2GØ	CW	3.4k	80m			MG	OS	VT	CO	4.5
97#	M569	2.905G	2.5M	2.85G-2.96G	1.5m	43k	170			MG	OS	FF	WA	9.75 §
98#	M573	2.905G	2.5M	2.85G-2.96G	1.5m	41k	170			MG	OS	FF	WA	9.75 §
99▼#	M5134	2905M	2.5M	2.850G-2.960G	1.5m	40000	140			MG	OS	FF	WA	
100#	M1226	2.930G	500k†	2.910G-2.950G	1.0m	30k	70			MG	OS	FF	CO	
101	3S2.8-3.1	2950M	3.0 †	2.800G - 3.100G	CW	1100	.015			MG	OS	VT	CO	1.0 *
102#	M5048	2.95G	1.2M△	2.9G-3.0G	1.5m	36k	75			MG	OS	MT	WA	60 *
103#	BM1005	2.953G	2.0M	2.944G-2.962G	1.5m	43k	100			MG	OS	FF	WA	18 §
104♦#	F1054	2957M	1.0M†	2.900G-3.015G	1.0m	30k	60 Ø			MG †	OS	MT	WA	
105▼#	MCV1055E	2957M	1.0M†	2.900G-3.015G	1.0m	30000	60 Ø			MG †	OS	MT	WA	
106	L3504	2962M	900 †	2.350G - 3.575G	.25	4500	.70			MG	OS	MT	WA	18 △
107♦	L3460	2962M	2000 †	2.350G-3.575G	.25	5500	.90			MG #		MT	WA	18 △
108#	CV1482	2965M	450000	2.950G - 2.980G	.001	30000	35			MG	OS	FF	CO	1.25 §
109#	M5030A	2975M	1.0M	2900M-3050M	2.0m	36k	80			MG	OS	MT	WA	67
110	4J44	2978M	900000	2.965G - 2.992G	.001	30000	70			MG	OS	FF	CO	6.0

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	CV1481	2.992G	450k	2.98G-3.005G	1.0m	30k	35			MG	OS	FF	CO	1.25 §
2▼#	TH3060B	2996M	1.9M†	2.992G-3.001G	1.5m	40k	100 Ø			MG †§	OS	MT	WA	
3▼#	M5125	2997M	1950 *	2.992G-3.001G	1.0m	47000	100 Δ			MG #	OS	MT	WA	16
4#	M5058	2.998G	1.3MΔ	2.994G-3.002G	1.5m	40k	80			MG	OS	MT	WA	16 §
5#	3M90	2998M	2.0M	2.994G-3.002G	1.5m	43k	80			MG	OS	MT	WA	18
6#	BM1004	2.998G	2.0M	2.989G-3.007G	1.5m	43k	100			MG	OS	FF	WA	18 §
7#	M5015	2.998G	2.0M	2.994G-3.002G	1.5m	47k	100			MG	OS	MT	WA	16
8	EM1334	3000M	1.0 †	2.500G - 3.500G		2000	.02			MG	OS	VT	CO	2.0 Δ
9	2S2-4	3000M	2.0	2.000G - 4.000G	CW	2200	.015			MG	OS	VT	CO	1.5
10	2S2-4S	3000M	2.0	2.000G - 4.000G	CW	2200	.015			MG	OS	VT	CO	1.5 *
11	10S2.5-3.5	3000M	10	2.500G - 3.500G	CW	2200	.025			MG	OS	VT	CO	1.5
12	10S2.5-3.5S	3000M	10	2.500G - 3.500G	CW	2200	.025			MG	OS	VT	CO	1.5 *
13	ZM6265A	3.0G	10 †	2.5G-3.5GØ		2.5k	40m		80	MG	OS	VT	CO	1.0
14	50S2.5-3.5	3000M	50	2.500G - 3.500G	CW	4100	.045			MG	OS	VT	CO	4.0 *
15	JAN5657	3000M	400 †	2.900G-3.100G	1.0m	32500	70			MG	OS	MT	CO	
16▼#	M5091A	3000M	500 †	2.900G-3.100G	1.0m	32500	70 Δ			MG	OS	MT	CO	6.5
17	QKH1528	3000M	1.0k	2.900G-3.100G	1.0m	44k	45			MG	OS	MT	WA	66.5
18#	5657	3000M	800000	2.90G-3.10G	500u	30000	70			MG		MT		
19	DX482	3000M	800k	2.90G-3.10G	1.0m	32000	70			MG	OS	MT	CO	5.5
20#	M5113	3000M	900k	2.90G-3.10G	1.0m	32500	70 Δ			MG	OS	MT	CO	5.5
21#	M5035	3.000G	1.0MΔ	2.900G-3.100G	1.0m	32.5k	70			MG	OS	FF	CO	5.5 §
22#	BM1006	3.0G	1.5M	2.98G-3.02G	1.5m	38k	70			MG	OS	FF	WA	18 §
23♦#	M5135	3005M	3750	2.95G-3.060G	1.5m	43000	170 Δ			MG #	OS	FF	WA	12.5 §
24#	4J43	3005M	900000	2.992G - 3.019G	.001	30000	70			MG	OS	FF		6.0 §
25#	M570	3.005G	2.5M	2.95G-3.06G	1.5m	43k	170			MG	OS	FF	WA	9.75 §
26#	M574	3.005G	2.5M	2.95G-3.06G	1.5m	44k	155			MG	OS	FF	WA	9.75 §
27#	CV1495	3.01G	200k	3.0G-3.02G	1.0m	23k	22.5			MG	OS	FF	CO	2.75 §
28#	CV1480	3017M	450000	3.005G - 3.030G	.001	30000	35			MG	OS	FF	CO	1.25 §
29#	M577B	3.02G	900k	3.0G-3.04G	1.0m	30k	70			MG	OS	FF	CO	6.0
30#	CV1496	3.03G	200k	3.02G-3.04G	1.0m	23k	22.5			MG	OS	FF	CO	2.75 §
31#	BM1003	3.043G	2.0M	3.034G-3.052G	1.5m	45k	100			MG	OS	FF	WA	18 §
32#	CV1479	3045M	450000	3.030G - 3.060G	.001	30000	35			MG	OS	FF	CO	1.25 §
33	2J70A	3050M	20	3.025G-3.075G	1.0m	7.0k	8.0			MG	OS	FF	CO	3.75
34	2J70B	3050M	50	3.025G-3.075G	1.0m	9.0k	16			MG	OS	FF	CO	3.75
35	EM1333	3050M	75 †	2.900G - 3.200G		3000	.085			MG	OS	VT	CO	4.0 Δ
36#	M5020	3.050G	25kΔ	3.040G-3.060G	1.0m	8.5k	12			MG	OS	FF	WA	5.5
37#	M5063-2J70B	3050M	50kΔ	3.025G-3.075G	1.0M	9.5k	16			MG	OS	FF	WA	3.75
38#	M561	3.05G	80k*	3.04G-3.06G*	2.0m	18k	25			MG	OS	FF	CO	3.25
39#	CV1497	3.05G	200k	3.04G-3.06G	1.0m	23k	22.5			MG	OS	FF	CO	2.75 §
40♦#	F1055	3050M	1.0M†	2.985G-3.115G	1.0m	30k	60 Ø			MG †	OS	MT	WA	
41▼#	MCV1055F	3050M	1.0M†	2.985G-3.115G	1.0m	30000	60 Ø			MG †	OS	MT	WA	
42♦#	F1030	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
43♦#	F1031	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
44♦#	F1032	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
45♦#	F1033	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
46♦#	F1034	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
47♦#	F1035	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG	OS	MT	WA	
48♦#	F1036	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG	OS	MT	WA	
49♦#	F1037	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG	OS	MT	WA	
50♦#	F1038	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG	OS	MT	WA	
51♦#	F1039	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG	OS	MT	WA	
52♦#	F1040	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG	OS	MT	WA	
53♦#	F1041	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
54♦#	F1042	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
55♦#	F1043	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
56♦#	F1044	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
57▼#	MC1055A	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
58▼#	MC1055B	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
59▼#	MC1055C	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
60▼#	MC1055D	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
61▼#	MC1055E	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
62▼#	MC1055F	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
63▼#	MC1055G	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
64▼#	MC1055H	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
65▼#	MC1055I	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
66▼#	MC1055J	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
67▼#	MC1055K	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
68▼#	MC1055L	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
69▼#	MC1055M	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
70▼#	MC1055N	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
71▼#	MC1055O	3065M	1.1M†	2.900G-3.230G	1.0m	31k	65 Ø			MG †	OS	MT	WA	
72#	CV1498	3.07G	200k	3.06G-3.08G	1.0m	23k	22.5			MG	OS	FF	CO	2.75 §
73#	M578B	3.08G	900k	3.06G-3.1G	1.0m	30k	70			MG	OS	FF	CO	6.0
74#	CV1499	3.095G	200k	3.08G-3.1G	1.0m	23k	22.5			MG	OS	FF	CO	2.75 §
75▼#	M5136	3105M	3750	3.050G-3.160G	1.5m	41500	176 Δ			MG #	OS	FF	WA	12.5 §
76#	M579	3.105G	2.5M	3.05G-3.16G	1.5m	43k	170			MG	OS	FF	WA	9.75 §
77#	CV1500	3.11G	200k	3.1G-3.12G	1.0m	23k	22.5			MG	OS	FF	CO	2.75 §
78#	M5034A	3125M	1.0M	3050M-3200M	2.0m	36k	80			MG	OS	MT	WA	67
79♦#	F1056	3142M	1.0M†	3.085G-3.200G	1.0m	30k	60 Ø			MG †	OS	MT	WA	
80▼#	MCV1055G	3142M	1.0M†	3.085G-3.200G	1.0m	30000	60 Ø			MG †	OS	MT	WA	
81	ZM6277	3.16G	100 †	2.86G-3.46GØ	CW	3.4k	80m			MG	OS	VT	CO	4.5
82▼#	M5079A	3200M	230 †	3.100G-3.300G	1.0m	34000	70 Δ			MG	OS	MT	CO	5.5
83▼#	M5126A	3200M	450 †	3.100G-3.300G	1.0m	34000	70 Δ			MG	OS	MT	CO	6.5
84	QKH1599	3225M	450	3.100G-3.350G	1.0m	30k	40			MG	OS	MT	CO	5.0
85	EM1336	3250M	.50 †	2.500G - 4.000G		2000	.02			MG	OS	VT	CO	2.0 Δ
86	10S3.5R	3250M	10 †	3.000G - 3.500G	CW	2200	.025			MG	OS	VT	CO	1.0 *
87	100S3-3.5	3250M	100	2.800G - 3.500G	CW	3500	.07			MG	OS	VT	CO	4.0 *
88#	CV1478	3.25G	450k	3.23G-3.27G	250u	30k	40			MG	OS	FF	CO	1.25 §
89#	CV1477	3.287G	450k	3.27G-3.305G	250u	30k	40			MG	OS	FF	CO	1.25 §
90♦#	5795	3300M	1.0m	3.100G-3.500G	2.2m	45000	45			MG	OS		WA	66.13
91	JAN5795	3.3G	1.0MΔ	3.1G-3.5G	2.2m	47k	50			MG	OS	MT	WA	65.5
92	JAN10658175	3.3G	1.0MΔ	3.1G-3.5G	2.2m	47k	50			MG	OS	MT	WA	65.5
93#	CV1476	3.323G	450k	3.305G-3.34G	250u	26k	40			MG	OS	FF	CO	1.25 §
94#	CV1475	3.36G	450k	3.34G-3.38G	250u	26k	40			MG	OS	FF	CO	1.25 §
95	JANDOD025	3409M	36m†	2.507G-4.310G	CW	1.7k	20m			MG	OS	VT	CO	4.0 Δ
96	6589	3425M	500000	3.350G - 3.500G	.001	30000	50			MG	OS	MT	WA	8.50
97#	CV1486	3470M	425000	3.450G - 3.490G	.001	30000	40			MG	OS	FF	CO	1.25 §
98♦	JAN6402	3500M	1.0m	3.430G-3.570G	1.6m	57k	55			MG †#		MT		65
99	10S3-4	3500M	10	3.000G - 4.000G	CW	2300	.025			MG	OS	VT	CO	1.5
100	10S3-4S	3500M	10	3.000G - 4.000G	CW	2300	.025			MG	OS	VT	CO	1.5 *
101	50S3-4	3500M	50	3.000G - 4.000G	CW	3800	.045			MG	OS	VT	CO	4.0 *
102	100S3.2-3.8	3500M	100 †	3.20G-3.80G	CW	4000	70m			MG	OS	VT	CO	3.5 *
103	6402	3500M	980	3.430G-3.570G	1.6m	57k	55			MG	OS	MT	WA	65
104	QK437	3500M	1000k	3.43G-3.57G	1.6m	57000	55			MG	OS	MT	WA	65
105#	CV1485	3510M	425000	3.490G - 3.530G	.001	30000	40			MG	OS	FF	CO	1.25 §
106	5S3.4-3.7	3550M	5.0 †	3.400G - 3.700G	CW	1200	.02			MG	OS	VT	CO	1.5 *
107#	CV1484	3550M	425000	3.530G - 3.570G	.001	30000	40			MG	OS	FF	CO	1.25 §
108	JAN4J38	3575M	350 †	3.550G-3.600G	1.0m	30000	70 Δ			MG	OS	FF	WA	
109#	CV1483	3592M	425000	3.570G - 3.614G	.001	30000	40			MG	OS	FF	CO	1.25 §
110	4J37	3625M	350	3.600G-3.650G	1.0m	30k	70			MG	OS	FF	WA	5.0

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	QKH1448	3645M	1.0k	3.590G-3.700G	1.0m	46k	50			MG	OS	MT	WA	70
2	8764	3645M	1.2k	3.590G-3.700G	1.2m	54k	50			MG	OS	MT	WA	65
3	4J36	3675M	700000	3.650G - 3.700G	.001	30000	70			MG	OS	FF		
4	10SC3.5-3.5S	4.0G	10	3.5G-4.5G	CW	2.5k	25m			MG	OS	VT	CO	
5	10SC3.5-4.5	4000M	10	3.500G - 4.500G	CW	2500	.025			MG	OS	VT	CO	1.5
6	100C3.8-4.4	4100M	100 †	3.80G-4.40G	CW	3800	70m			MG	OS	VT	CO	3.5 *
7	L3505	4275M	900 †	3.575G - 4.975G	.25	4500	.70			MG	OS	MT	WA	18 △
8♦	L3461	4275M	1500 †	3.575G-4.975G	.25	5500	.90			MG #		MT	WA	18 △
9	6177	4309M	1.0	4.268G-4.350G	CW	350	35m			MG	OS	EM	CO	1.0
10	6177A	4309M	1.0	4.268G-4.350G	1.0	350	35m			MG	OS	EM	CO	1.0
11	JAN6177A	4309M	1.0 †	4.268G - 4.350G	CW	350	.035			MG	OS	EM	CO	1.0
12	5C4-5S	4500M	5.0	4.000G - 5.000G	CW	2100	.02			MG	OS	VT	CO	1.5 *
13	10C4-5	4500M	10 †	4.00G-5.00G	CW	2500	25m△			MG	OS	VT	CO	1.7 *
14	100C4.4-5	4700M	100 †	4.40G-5.00G	CW	3600	70m			MG	OS	VT	CO	4.5 *
15	2C4-6S	5000M	2.0 †	4.000G - 6.000G	CW	2400	.02			MG	OS	VT	CO	1.5 *
16	5C4.5-5.5S	5000M	5.0	4.500G - 5.500G	CW	2100	.015			MG	OS	VT	CO	1.5 *
17	10C4.5-5.5	5000M	10 †	4.50G-5.50G	CW	2500	25m△			MG	OS	VT	CO	1.7 *
18	QKH1199	5000M	250	4.900G-5.100G	1.0m	24k	24			MG	OS	MT	WA	35
19	100C4.8-5.4	5100M	100 †	4.80G-5.40G	CW	3600	70m			MG	OS	VT	CO	4.5 *
20	L3897	5200M	175000	4.950G - 5.450G	.001	22000	22			MG	OS	MT	WA	25
21	QKH632	5280M	1.0k	5.250G-5.310G	1.0m	35k	60			MG	OS	FF	WA	50
22#	5M20	5.300G	320k†	5.250G-5.350G	1.0m	25k	50			MG	OS	MT	WA	
23♦#	M4508B	5300M	350000	5.290G-5.310G	7007	23000	40			MG ∅		MT	WA	
24#	M5032	5.3G	840k	5.25G-5.35G	1.5m	34k	60			MG	OS	FF	WA	3.8
25	7040	5400M	85	5.380G-5.420G	1.0m	14.5k	14			MG	OS	FF	WA	7.7
26	QKH456	5400M	85	5.380G-5.420G	1.0m	16k	20			MG	OS	FF	WA	7.7
27	6521	5.4G	85k†	5.38G-5.42G	800u	16k	16			MG	OS	FF	WA	11.5
28	6521A	5400M	92k†△	5.38G-5.42G	1.2m	16k	16			MG	OS	FF	WA	11.5
29#	VF30	5400M	1.5M*	5.2G-5.6G±20M§*	2.0m	29000	90			MG	OS	FF	WA	11
30♦#	TV1505	5425M	250k†	5.350G-5.500G	1.0m	25k	24 ∅			MG †	OS	MT	WA	
31	BLM167	5450M	900 †	5.200G - 5.700G	.002	2800 ∅	1.5			MG	OS	MT	CO	.63
32	QKH539	5480M	1.0k	5.450G-5.510G	1.0m	35k	60			MG	OS	FF	WA	50
33#	M5033	5.48G	840k	5.43G-5.53G	1.5m	34k	60			MG	OS	FF	WA	3.8
34	5C5-6S	5500M	5.0	5.000G - 6.000G	CW	2300	.02			MG	OS	VT	CO	1.5 *
35	10C5-6	5500M	10 †	5.00G-6.00G	CW	2600	25m△			MG	OS	VT	CO	1.7 *
36#	6M70	5540M	50000	5.510G - 5.570G	.001	13000	16			MG	OS	FF	WA	
37#	6M72	5540M	85k	5.510G-5.570G	1.0m	15k	13.5			MG	OS	FF	WA	11
38	7417	5.55G	9.0k†	5.5G-5.6G	300u	7.5k	4.0			MG	OS	FF	WA	
39	JAN7417	5550M	10000 †	5.500G - 5.600G	.001	8200	8.0			MG	OS	FF	WA	8.0
40	BL244	5550M	10k†	5.500G-5.600G	1.0m	8200	8.0			MG	OS	FF	WA	9.0 △
41	L3506	5.575G	800 †	4.975G-6.175G	250m	4.5k	700m			MG	OS	MT	WA	18 △
42♦	L3467	5575M	1800 †	4.975G-6.175G	.25	6000	.90			MG #		MT	WA	18 △
43♦	JAN6344A	5637M	43 †	5.450G-5.825G	1.0m	24k	30			MG †		MT	WA	25 △
44♦	JAN7156A	5.637G	157 †	5.45G-5.825G	1.2m	28k	30			MG	OS	MT	WA	35
45	QKH1162	5637M	250	5.450G-5.825G	1.0m	24k	24			MG	OS	MT	WA	35
46♦#	MCV1421	5637M	50k†	5.450G-5.825G	1.0m	15k	12 ∅			MG †	OS	MT	WA	
47#	6344-QKH235	5.637G	175k	5.450G-5.825G	1.0m	21.5k	22			MG	OS	MT	WA	24.3
48	JAN7460	5.637G	250k†	5.45G-5.825G	1.2m	28k	30			MG	OS	MT	WA	35
49♦#	F1050	5637M	250k†	5.450G-5.825G	1.0m	25k	24 ∅			MG †	OS	MT	WA	
50♦#	TV1546	5637M	250k†	5.450G-5.825G	1.0m	25k	24 ∅			MG †	OS	MT	WA	
51	JAN8763	5637M	270000 △	5.450G-5.825G	1.2m	26000	35			MG	OS	MT	CO	36
52	7460	5638M	87	5.450G-5.825G	1.2m	24.5k	25			MG	OS	MT	WA	35
53	6344A	5638M	150	5.450G-5.825G	1.0m	24k	30			MG	OS	MT	WA	25
54	7156	5638M	250	5.450G-5.825G	1.0m	24.5k	24			MG	OS	MT	WA	35
55	6344	5638M	175k†	5.450G - 5.825G	.001	24000	30			MG	OS	MT	WA	24
56	QK235	5638M	175k	5.45G-5.825G	1.0m	22000	22			MG	OS	MT	WA	25
57	L5080	5.638G	250k†	5.45G-5.825G	1.2m	28k	30			MG	OS	MT	WA	35
58	QK662A	5638M	250k	5.45G-5.82G	1.0m	26000	24			MG	OS	MT	WA	35
59	QK686	5638M	250k	5.45G-5.82G	1.2m	24500	25			MG	OS	MT	WA	35
60	5C5.4-5.9S	5650M	5.0	5.400G - 5.900G	CW	2100	.015			MG	OS	VT	CO	1.5 *
61	100C5.4-5.9	5650M	100 †	5.40G-5.90G	CW	3800	70m			MG	OS	VT	CO	4.5 *
62	7088	5650M	100 †	5.400G - 5.900G	.002	1450	.80			MG	OS	MT	CO	.40
63	BL250	5650M	150 †	5.400G - 5.900G	.002	1350 ∅	1.0			MG	OS	MT	CO	.50
64	7443	5650M	400 †△	5.400G - 5.900G	.002	2100	1.1			MG	OS	MT	CO	.63
65	BLM205	5.65G	450 †	5.4G-5.9G	1.3m	2.3k	1.1			MG	OS	MT	CO	630m
66	BLM086	5650M	500 †	5.400G - 5.900G	.002	2150 ∅	1.1			MG	OS	MT	CO	.44
67	BLM017	5650M	550 △	5.400G - 5.900G	.002	2500	1.4			MG	OS	MT	CO	.63
68	BLM213	5650M	550	5.400G-5.900G	2.0m	2.4k	1.3			MG	OS	MT	CO	630m△
69	BLM093	5650M	600 †	5.400G - 5.900G	.002	2200 ∅	2.0			MG	OS	MT	CO	.44
70	BLM196	5650M	600	5.400G-5.900G	2.0m	2300	1.3			MG	OS	MT	WA	440m
71	BLM149A	5650M	700	5.400G-5.900G	2.0m	2.4k	1.3			MG	OS	MT	CO	690m△
72	BLM155	5.65G	700 †	5.4G-5.9G	1.2m	2.55k∅	1.2			MG	OS	MT	CO	370m
73	BLM190	5650M	750	5.400G-5.900G	2.0m	2.5k	1.3			MG	OS	MT	CO	440m△
74	BL245	5650M	900 †	5.400G - 5.900G	.002	2650 ∅	1.5			MG	OS	MT	CO	.63
75	BLM095	5650M	1000 †△	5.400G - 5.900G	.002	3100	1.9			MG	OS	MT	CO	.44
76	BLM201	5650M	1.2k	5.400G-5.900G	2.0m	2.8k	1.9			MG	OS	MT	CO	440m△
77	BLM116	5.65G	1.4k†	5.4G-5.9G	1.5m	3.05k∅	1.9			MG	OS	MT	CO	500m
78	BLM179	5650M	1500 †	5.400G - 5.900G	.002	3200 ∅	2.2			MG	OS	MT	CO	.50
79	BLM127	5650M	3500 †	5.400G - 5.900G	.001	5000 ∅	3.2			MG	OS	MT	CO	.75
80	QKH1214	5670M	1000k	5.665G-5.715G	1.0m	35000	65			MG	OS	MT	WA	50
81	BLM186	5.7G	50 †	5.405G-5.995G	400u	1.1k	800m			MG	OS	MT	CO	690m
82	BLM153	5750M	5000 †△	5.700G - 5.800G	.001	5800	6.0			MG	OS	MT	CO	1.25
83	5C5.5-6.5S	6000M	5.0	5.500G - 6.500G	CW	2400	.02			MG	OS	VT	CO	1.5 *
84	10C5.5-6.5	6000M	10 †	5.50G-6.50G	CW	2600	25m△			MG	OS	VT	CO	1.7 *
85	100C5.9-6.4	6150M	100 †	5.90G-6.40G	CW	3600	70m			MG	OS	VT	CO	4.5 *
86	4J59	6325M	180	6.275G-6.375G	1.0m	25k	35			MG	OS	FF	WA	11.5
87	JAN4J59	6325M	600000	6.275G - 6.375G	.001	25000	35			MG		FF	WA	
88	4J58	6425M	180	6.375G-6.475G	1.0m	25k	35			MG	OS	FF	WA	11.5
89	JAN4J58	6425M	600000	6.375G - 6.475G	.001	25000	35			MG		FF	WA	
90	2C6-7S	6500M	2.0	6.000G - 7.000G	CW	2600	.015			MG	OS	VT	CO	1.5 *
91	5C6-7S	6500M	5.0 †	6.000G - 7.000G	CW	2500	.02			MG	OS	VT	CO	1.5 *
92	10C6-7	6500M	10 †	6.00G-7.00G	CW	2500	25m△			MG	OS	VT	CO	1.7 *
93	50C6-7	6500M	50 †	6.00G-7.00G	CW	3900	60m△			MG	OS	VT	CO	4.5 *
94	100C6.2-6.8	6500M	85 †	6.20G-6.80G	CW	3600	80m△			MG	OS	VT	CO	4.5 *
95	4J57	6525M	180	6.475G-6.575G	1.0m	25k	35			MG	OS	FF	WA	11.5
96	JAN4J57	6525M	600000	6.475G - 6.575G	.001	25000	35			MG		FF	WA	
97	L3507	6725M	800 †	6.175G - 7.275G	.25	4500	.70			MG	OS	MT	WA	18 △
98♦	L3468	6725M	1500 †	6.175G-7.275G	.25	5500	.90			MG #		MT	WA	18 △
99	10C6.5-7.5	7000M	10 †	6.50G-7.50G	CW	2600	25m△			MG	OS	VT	CO	1.7 *
100	50C6.5-7.5	7000M	50 †	6.50G-7.50G	CW	4000	60m△			MG	OS	VT	CO	4.5 *
101	100C6.8-7.4	7100M	85 †	6.80G-7.40G	CW	3800	80m△			MG	OS	VT	CO	4.5 *
102	MA259	7150M	1000	7.000G - 7.300G	.005	2000	2.0			MG	OS	FF	WA	1.31
103▾	MA2813	7250M	1.0k	7.000G-7.500G	1.0m	2.1	2.0			MG	OS	FF	WA	1.25
104	10X7-8	7500M	10 †	7.00G-8.00G	CW	2700	25m△			MG	OS	VT	CO	1.7 *
105	50X7-8	7500M	50 †	7.00G-8.00G	CW	3700	65m△			MG	OS	VT	CO	4.5 *
106	100X7.4-8.0	7700M	85 †	7.40G-8.00G	CW	3600	80m△			MG	OS	VT	CO	4.5 *
107	MA217	8.0G	1.0 †	7.5G-8.5G	CW	430	15m			MG	OS	MT		1.0
108	MA217B	8000M	1.0 †	7.500G - 8.500G	CW	470	.02			MG	OS	MT	WA	
109	10X7.5-8.5	8000M	10 †	7.50G-8.50G	CW	2700	25m△			MG	OS	VT	CO	1.7 *
110	MA217A	8000M	10 †	7.500G - 8.500G	.005	530	.15			MG	OS	MT	WA	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	MA217C	8000M	20 †	7.500G - 8.500G	.005	560	.30			MG	OS	MT	WA	
2	50X7.5-8.5	8000M	50 †	7.50G-8.50G	CW	3700	65mΔ			MG	OS	VT	CO	4.5 *
3	L3508	8025M	700 †	7.275G - 8.775G	.25	4500	.70			MG	OS	MT	WA	18 Δ
4♦	L3462	8025M	1500 †	7.275G-8.775G	.25	5600	.90			MG #		MT	WA	18 Δ
5	MA221B	8150M	1.5 †	7.500G - 8.800G	CW	450	.015			MG	OS	FF	WA	
6	MA221A	8150M	10 †	7.500G - 8.800G	.01	500	.15			MG	OS	FF	WA	
7	MA221C	8150M	10 †	7.500G - 8.800G	.01	500	.15			MG	OS	FF	WA	
8	MA221D	8150M	20 †	7.500G - 8.800G	.005	530	.30			MG	OS	FF	WA	
9	MA231B	8150M	20 †	7.500G - 8.800G	CW	930	.055			MG	OS	FF	WA	.69
10	MA231A	8150M	200 †	7.500G - 8.800G	.05	1000	.75			MG	OS	FF	WA	.69
11	DX368	8.15G	50k	8.125G-8.175G	1.6m	15k	15			MG	OS	FF	WA	6.0
12	80X8-8.5	8250M	80 †	8.00G-8.50G	CW	3800	70mΔ			MG	OS	VT	CO	4.5 *
13	MA293	8300M	50 †	8.00G-8.60G	2.0m	750	400m			MG		FF	CO	750m
14	MA262	8.4G	200	8.0G-8.8G	5.0m	1.05k	750m			MG	OS	FF	WA	
15	10X8-9	8500M	10 †	8.00G-9.00G	CW	2600	25mΔ			MG	OS	VT	CO	1.7 *
16	50X8-9	8500M	50 †	8.00G-9.00G	CW	3800	60mΔ			MG	OS	VT	CO	4.5 *
17#	M549	8583M	225000	8.500G - 8.665G	.001	23000	27.5			MG	OS	FF	WA	10.5 *
18#	M539	8748M	225000	8.665G - 8.830G	.001	23000	27.5			MG	OS	FF	WA	10.5 *
19	BLM1390	8750M	1.0 †	8.500G - 9.000G		1200	.015			MG	OS	VT	CO	1.5 Δ
20	80X8.5-9	8750M	80 †	8.50G-9.00G	CW	3900	70mΔ			MG	OS	VT	CO	4.5 *
21	BLM014	8750M	150 †	8.500G - 9.000G	.002	1320 Ø	.90			MG	OS	MT	CO	.37
22	L3039A	8.757G	225k†	8.732G-8.782G*	2.0m	23k	27.5			MG	OS	FF	WA	10
23	VMX1077	8760M	250000	8.500G-9.600G	1.2m	26000	24			MG	OS	MT	WA	17
24#	BM1039	8.775G	60k	8.5G-9.05G	300u	15.5k	12			MG	OS	MT	WA	11.5 *
25	L3039R	8790M	225k†	8.700G - 8.880G	01	22000	28			MG	OS	FF	WA	10 Δ
26	7579	8800M	40 †	8.775G - 8.825G	.25	800	.20			MG	OS	FF		
27	L3089B	8.8G	40 †	8.775G-8.825G*	250m	900	200m			MG	OS	FF	WA	1.31 Δ
28	6248	8800M	55	8.700G-8.900G	45m	3.8k	900m			MG	OS	MT	WA	6.0
29	JAN6248	8800M	1100 †Δ	8.70G-8.90G	55m	4500	1.0			MG	OS	MT	WA	6.0 Δ
30#	M537A	8.8G	9.0k	8.77G-8.83G	2.5m	6.0k	5.5			MG	OS	FF	WA	3.25
31	L3039D	8.8G	225k†	8.78G-8.82G*	2.0m	23k	27.5			MG	OS	FF	WA	10
32▼#	MAG22	8810M	25	8.790G-8.830G	500m	850	180mΔ			MG	OS	FF	WA	1.10
33♦#	TV1255B	8820M	40k†	8.790G-8.850G	1.0m	12k	12 Ø			MG †	OS	MT	WA	
34	2J50	8825M	40	8.750G-8.900G	1.2m	16k	16			MG	OS	FF	WA	1.3
35	JAN2J50	8.825G	50kΔ	8.75G-8.9G	1.2m	16k	16			MG	OS	FF	WA	
36	L3039E	8.86G	225k†	8.84G-8.88G*	2.0m	23k	27.5			MG	OS	FF	WA	10
37	L3956	8.9G	4.5k	8.88G-8.92G	1.2m	3.8k	3.75			MG	OS	FF		1.4 Δ
38#	M529	8913M	225000	8.830G - 8.995G	.001	23000	27			MG	OS	FF	WA	10.5 *
39	L3039F	8.92G	225k†	8.9G-8.94G*	2.0m	23k	27.5			MG	OS	FF	WA	10
40#	M592	8960M	80000	8.925G - 8.995G	.001	16000	15			MG	OS	FF	WA	5.25 *
41	L3039G	8.98G	225k†	8.96G-9.0G*	2.0m	23k	27.5			MG	OS	FF	WA	10
42	50X8.5-9.5	9000M	50 †	8.50G-9.50G	CW	4500	55mΔ			MG	OS	VT	CO	4.5 *
43#	CV5134	9.0G	60k	8.5G-9.6G	1.2m	16k	15.5			MG	OS	MT	WA	4.85
44	L3030B	9.0G	300k†	8.97G-9.03G*	1.0m	29k	27.5			MG	OS	FF	WA	14 Δ
45#	M5075	9020M	50k	9.005G-9.035G	1.0m	15k	12			MG	OS	FF	WA	1.75
46♦#	TH3041A	9030M	200k†	9.005G-9.055G	1.0m	22k	27.5 Ø			MG †	OS	MT	WA	
47	L3039H	9.04G	225k†	9.02G-9.06G*	2.0m	23k	27.5			MG	OS	FF	WA	10
48	10X8.5-9.6	9050M	10 †	8.50G-9.60G	CW	2700	25mΔ			MG	OS	VT	CO	1.7 *
49	2J51A	9050M	40	8.500G-9.600G	1.1m	16k	15.5			MG	OS	MT	WA	4.8
50	7256	9050M	40	8.500G-9.600G	1.0m	14k	14			MG	OS	MT	WA	5.0
51	MA261	9050M	50	8.500G - 9.600G	.003	850	.45			MG	OS	MT	WA	
52	MA272	9.05G	7.0k	8.6G-9.5G	2.0m	5.0k	5.5			MG	OS	FF	WA	
53	L3103	9050M	30000 †	8.500G - 9.600G	.002	12500	10			MG	OS	MT	WA	6.0 Δ
54	2J51	9.05G	40k	8.5G-9.6G	1.2m	16k	16			MG	OS	MT		
55	QKH713	9050M	40k	8.50G-9.60G	1.0m	14000	14			MG	OS	MT	WA	5.0
56♦	JAN2J51A	9050M	45kΔ	8.5G-9.6G	1.1m	11k	15.5			MG †		MT	WA	5.0
57	6543	9050M	65000	8.500G - 9.600G	.001	15000	15			MG	OS	MT	WA	6.12
58	JAN6543	9050M	65000 Δ	8.500G - 9.600G		16500	16			MG	OS	MT	WA	6.13 Δ
59	6543A	9050M	65000 †	8.500G - 9.600G	.001	16500	15			MG	OS	MT	WA	6.12
60♦#	F1025	9050M	70k†	8.500G-9.600G	1.0m	15k	15 Ø			MG †	OS	MT	WA	
61#	M5101	9050M	70k	8.500G-9.600G†	1.2m	16k	20 Δ			MG	OS	FF	WA	5.8
62#	M5119	9050M	70k	8.500G-9.600G†	1.2m	16kΔ	20			MG	OS	FF	WA	5.5
63	L4193C	9.05G	90k†	8.5G-9.6G	2.1m	23k	13.8			MG	OS	MT	WA	11 Δ
64	JANDOD012	9050M	95k†	8.50G-9.60G	1.1m	17000	16			MG	OS	MT	WA	10
65	JANDOD013	9050M	95k†	8.50G-9.60G	1.1m	17000	16			MG	OS	MT	WA	10
66	L5273	9050M	95k	8.500G-9.600G	1.1m	17000	16			MG	OS	MT	WA	10
67♦#	4J50TO	9050M	200k†	8.500G-9.600G	1.0m	22.5k	27.5 Ø			MG †§	OS	MT	WA	
68♦#	4J50TR	9050M	200k†	8.500G-9.600G	1.0m	22.5k	27.5 Ø			MG †	OS	MT	WA	
69	7111	9.05G	200k†	8.5G-9.6G	1.3m	23k	27.5			MG	OS	MT	WA	10 Δ
70▼#	F1005	9050M	200k†	8.500G-9.600G	1.0m	22.5k	27.5 Ø			MG †§	OS	MT	WA	
71▼#	F1103	9050M	200k†	8.500G-9.600G	1.0m	22.5k	27.5 Ø			MG †	OS	MT	WA	
72▼#	F1103A	9050M	200k†	8.500G-9.600G	1.0m	22k	27.5 Ø			MG †	OS	MT	WA	
73	L4502	9.05G	200k†	8.7G-9.4G	1.3m	23k	30			MG	OS	MT	WA	12
74♦#	TH3049	9050M	200k†	8.500G-9.600G	1.0m	22k	27.5 Ø			MG †	OS	MT	WA	
75	7950	9.05G	208k	8.5G-9.6G	1.3m	33k	24			MG	OS	MT	WA	16
76	7008	9050M	220000	8.500G - 9.600G	.001	23000	27.5			MG	OS	MT	WA	13
77	JAN7111	9.05G	220kΔ	8.5G-9.6G	1.1m	23k	27.5			MG	OS	MT	WA	12
78	5780	9050M	250k†	8.500G - 9.600G	.001	38000	36			MG	OS	MT	WA	16 Δ
79	JAN5780	9050M	250000	8.500G - 9.600G	.001	38000	36			MG	OS	MT	WA	16
80	JAN10658176	9050M	250000	8.500G - 9.600G	.001	38000	36			MG	OS	MT	WA	16
81	JAN10658181	9.05G	250kΔ	8.5G-9.6G	1.5m	40k	30			MG	OS	MT	WA	16
82	L4396A	9.05G	300k	8.5G-9.6G	1.1m	26k	32			MG	OS	MT	WA	12 Δ
83♦	JAN8896	9065M	190 †	8.500G-9.630G	3.0m	29500	32m			MG	OS	MT	WA	19 Δ
84	DX285	9.075G	200k	8.8G-9.6G	1.2m	24k	27.5			MG	OS	MT	WA	15
85	L3030	9.078G	300k	9.0G-9.375G†	1.0m	29k	28			MG	OS	FF	WA	14 Δ
86	MA294	9080M	50 †	9.05G-9.11G	2.0m	750	400m			MG		FF	CO	750m
87	JAN7256	9.08G	40k	9.0G-9.16G	1.1m	16k	15.5			MG	OS	MT	WA	5.0
88	JAN2J49	9.08G	50kΔ	9.0G-9.16G	1.2m	16k	16			MG	OS	FF	WA	
89#	BM1040	9080M	60000 †	9.040G - 9.120G	.001	17000	11			MG	OS	MT	WA	1.5 §
90	L3039I	9.1G	225k†	9.08G-9.12G*	2.0m	23k	27.5			MG	OS	FF	WA	10
91♦#	TH3041B	9130M	200k†	9.105G-9.155G	1.0m	22k	27.5 Ø			MG †	OS	MT	WA	
92	JAN7521	9150M	.80 †	8.900G - 9.400G	.002	5000	1.05			MG	OS	MT	WA	1.5
93	6229	9150M	400	8.900G - 9.400G	.003	5000	1.0			MG	OS	MT		1.63
94	BLM138	9150M	400 †	8.800G - 9.500G	.002	2150 Ø	1.1			MG	OS	MT	CO	.44
95	BLM204	9150M	400 †	8.800G - 9.500G	.001	2300	1.2			MG	OS	MT	CO	.63
96	JANDOD015	9150M	400 †	8.80G-9.50G	1.2m	2100	1.1			MG	OS	MT	CO	440mΔ
97	BLM211	9150M	500	8.800G-9.500G	2.0m	2.4k	1.6			MG	OS	MT	CO	630mΔ
98	BLM256	9150M	500	8.800G-9.500G	2.0m	2.4k	1.3			MG	OS	MT	CO	440mΔ
99	JANDOD019	9150M	500 †	8.80G-9.50G	2.0m	2.7k	1.4			MG	OS	MT	CO	625mΔ
100	MA265	9.15G	900	8.9G-9.4G	2.0m	4.3k	800m			MG	OS	MT	WA	
101	6230	9150M	910	8.900G - 9.400G	.003	5000	1.0			MG	OS	MT		1.63
102	7521	9150M	950 †	8.900G - 8.400G	.001	4300	.95			MG	OS	MT	WA	
103	BLM136	9.15G	1.0k†	8.8G-9.5G	1.5m	2.8k	2.0			MG	OS	MT	CO	370m
104	MA277	9150M	3000	8900M-9400M	500u	5200	2.5			MG	OS	MT	WA	1.5
105	VMX1028	9150M	7000 †	8.80G-9.50G	2.0m	2700	1.4 Δ			MG	OS	MT		7.0
106#	M5076	9150M	50k	9.135G-9.165G	1.0m	15k	12			MG	OS	FF	WA	1.75
107♦#	MCV1471	9150M	200k†	9.000G-9.300G	1.0m	22k	25 Ø			MG †	OS	MT	WA	
108	BLM203	9.15G	400k†Δ	8.8G-9.5G	800u	2.3k	1.4			MG	OS	MT	CO	630m
109	L3039J	9.16G	225k†	9.14G-9.18G*	2.0m	23k	27.5			MG	OS	FF	WA	10
110#	BM1037	9.175G	50k	9.145G-9.205G	1.0m	18k	12			MG	OS	MT	WA	1.5 §

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

										DESCRIPTION				
LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	M5077	9180M	50k	9.165G-9.195G	1.0m	15k	12			MG	OS	FF	WA	1.75
2	L3030C	9.2G	300k†	9.17G-9.23G*	1.0m	29k	27.5			MG	OS	FF	WA	14 △
3	L3039K	9.22G	225k†	9.2G-9.24G*	2.0m	23k	27.5			MG	OS	FF	WA	10
4	JP9-7A	9.24G	7.5k	9.21G-9.27G	2.5m	6.0k	5.5			MG	OS	FF	WA	3.0
5#	M5080	9240M	80k	9.21G-9.27G	1.2m	15500	15 △			MG	OS	FF	WA	5.0
6#	M538A	9240M	225k	9.210G - 9.270G	.001	23000	27.5			MG	OS	FF	WA	10.5 *
7	L3036F	9.245G	65k†	9.215G-9.275G*	1.0m	16k	15			MG	OS	FF	WA	6.0
8	L3036G	9245M	65000	9.245G	.001	15000	15			MG	OS	FF	WA	6.0 △
9	6967A	9.245G	75k†	9.205G-9.285G	1.0m	15k	13.5			MG	OS	FF		
10	QKH366	9245M	75k	9.205G-9.285G	1.0m	15000	13.5			MG	OS	FF	WA	7.50
11	BLM1395	9250M	1.0 †	9.000G - 9.500G		1200	.015			MG	OS	VT	CO	1.5 △
12	80X9-9.5	9250M	80 †	9.00G-9.50G	CW	4200	70m△			MG	OS	VT	CO	4.5 *
13	BLM003	9250M	150 †△	9.000G - 9.500G	.002	1600	1.2			MG	OS	MT	CO	.44
14	BLM129	9250M	150	9.000G-9.500G	2.0m	1.5k	1.2			MG	OS	MT	CO	370m△
15	MA241	9250M	150 †	9.100G - 9.400G	.001	2750	1.0			MG	OS	MT		
16	MA270	9250M	150	9.0G-9.5G	2.0m	1.4k	900m			MG	OS	MT	CO	
17	MA252	9250M	250 †	8.500G - 10.00G	.005	1150	.65			MG	OS	FF	WA	.810
18	MA250	9250M	4000	8.500G - 10.00G	.005	3750	4.0			MG	OS	FF	WA	1.31
19	VMX1003	9250M	200000 †	8.75G-9.750GØ	1.0m	22000	27.5 △			MG	OS	MT	CO	15
20	L3039	9250M	225k	8.757G-9.4G†	2.0m	23k	28			MG	OS	FF	WA	10
21	SFD333TM	9250M	375k	8.900G-9.600G	1.2m	33000	30			MG	OS	MT	WA	19
22♦#	VF10	9250M	800000 *	9.0G-9.5G*,±20M§	1.5m	32000	60			MG Ø		FF	WA	3.6 △
23♦#	VF11	9250M	1.0M*	9.0G-9.5GØ,±10MØ	1.5m	33000	75			MG Ø		MT	WA	3.6 △
24	L3029A	9267M	7000 †	9.235G - 9.300G	.003	7000	5.0			MG	OS	MT	WA	4.13 △
25#	BM1036	9.275G	50k	9.245G-9.305G	1.0m	18k	12			MG	OS	MT	WA	1.5 §
26#	BM1038	9275M	60000	9.050G - 9.600G	.001	16000	14			MG	OS	MT	WA	11.5 *
27	L3036B	9275M	65k†	9.26G-9.29G*	1.0m	16k	15			MG	OS	FF	WA	6.0
28	L3039L	9.28G	225k†	9.26G-9.3G*	2.0m	23k	27.5			MG	OS	FF	WA	10
29	L5145	9285M	1000	9.275G - 9.295G	.003	2800	1.3			MG	OS	MT	WA	1.0
30	L3029B	9287M	7000 †	9.250G - 9.315G	.003	7000	5.0			MG	OS	MT	WA	4.13 △
31	L3029D	9297M	7000 †	9.265G - 9.330G	.003	7000	5.0			MG	OS	MT	WA	4.13 △
32	MA219G	9300M	1.0 †	9.00G-9.60G	CW	480	20m			MG		MT	WA	800m
33	MA271	9.3G	50	9.15G-9.45G	1.0m	750	400m			MG	OS	FF	WA	
34	MA285	9300M	50 †	9.15G-9.45G	2.0m	750	400m			MG		FF	CO	750m
35	MA2803	9300M	50 †	9.15G-9.45G	2.0m	750	400m			MG		FF	WA	750m
36	L3105	9.3G	100 †	9.27G-9.33G*	27m	900	550m			MG	OS	FF	WA	1.37 △
37	MA266	9.3G	400	9.2G-9.4G	1.0m	1.25k	1.3			MG	OS	FF	WA	
38	L3813	9300M	500 †	9.270G - 9.330G*	1	1400	1.5			MG	OS	FF	WA	1.0 △
39	L3268	9300M	4000 †	9.270G - 9.330G	.001	3900	4.0			MG	OS	FF	WA	1.37 △
40	L5224	9300M	75k	9.100G-9.500G	1.5m	16000	18			MG	OS	DT	WA	11
41	7006	9.3G	190k†	9.0G-9.6G	1.3m	23k	30			MG	OS	MT	WA	11 △
42♦#	MCV1125	9300M	200k†	9.200G-9.400G	1.0m	22k	27.5 Ø			MG †§	OS	MT	WA	
43♦#	TH3039	9300M	200k†	9.000G-9.600G	1.0m	22.5k	27.5 Ø			MG †§	OS	MT	WA	
44	JAN7006	9.3G	210k△	9.0G-9.6G	1.3m	23k	30			MG	OS	MT	WA	11
45	QKH1374	9310M	14	9.300G-9.320G	2.0m	5.5k	4.5			MG	OS	FF	WA	3.0
46	6233	9310M	21	9.290G - 9.335G	.003	6000	4.0			MG	OS	MT	WA	4.13
47	BLM207	9310M	550 †	9.300G - 9.320G	.002	2400	1.2			MG	OS	MT	CO	.47
48	BLM184	9310M	2.0k	9.300G-9.320G	2.0m	3000	2.5			MG	OS	FF	WA	630m
49	JAN6233	9312M	21 †	9.280G-9.345G	3.0m	7000	5.0			MG	OS	MT	WA	4.0
50	L3028D	9315M	120 †	9.280G - 9.330G	.027	860	.60			MG	OS		WA	1.0 △
51♦#	9M20	9315M	8000 †	9.300G-9.330G	2.5m	5500 Ø	4.5 Ø			MG †		FF	WA	3.1
52♦#	9M30	9315M	40000 †	9.300G-9.330G	1.0m	12000 Ø	12 Ø			MG †		FF	WA	4.0
53♦	JAN6002	9317M	225 †	9.230G-9.404G	2.0m	30000	40			MG †		FF	WA	
54	6002	9317M	450	9.320G-9.404G	2.0m	30k	40			MG	OS	FF	WA	24
55	QK221	9317M	250k	9.23G-9.404G	1.0m	28000	30			MG	OS	FF	WA	24
56#	M5061	9320M	50k	9300M-9340M	1.0m	15k	12			MG	OS	FF	WA	1.75
57	L3601	9327M	120 †	9.315G - 9.340G	.027	860	.60			MG	OS	MT	WA	1.0 △
58	L3029C	9327M	7000 †	9.295G - 9.360G	.003	7000	5.0			MG	OS	MT	WA	4.13 △
59	L3225	9.33G	1.0k†	9.31G-9.35G	3.3m	2.95k	1.5			MG	OS	MT	WA	1.0 △
60	BLM176	9.34G	50 †	9.275G-9.405G	400u	1.1k	800m			MG	OS	MT	CO	690m
61	L3058	9.34G	1.0k†	9.32G-9.36G	3.5m	2.9k	1.5			MG	OS	MT	WA	1.0 △
62	VMX1024	9340M	28000 †	9.31G-9.37G	1.5m	8500	8.5 △			MG	OS	FF	CO	7.0
63	L3039M	9.34G	225k†	9.32G-9.36G*	2.0m	23k	27.5			MG	OS	FF	WA	10
64	QKH1535	9345M	20	9.315G-9.375G	1.0m	7.5k	8.0			MG	OS	FF	WA	6.0
65	L5274	9345M	7.5k	9.325G-9.365G	1.3m	4500	6.0			MG	OS	FF	WA	2.5
66	L5365	9345M	28k	9.315G-9.375G	1.5m	9000				MG	OS	FF	WA	4.5
67	L5191	9345M	75k	9.325G-9.365G	1.3m	15000	16			MG	OS	FF	WA	7.0
68▼#	TH3064	9345M	80k†		1.0m	16000	15			MG	OS	FF	WA	6.0
69#	M5118	9345M	85k	9.315G-9.375G	1.5m	16k△	20			MG	OS	FF	WA	5.0
70	YJ1250	9345M	90k	9.315G-9.375G	1.5m	16k	20			MG	OS	FF	WA	4.19
71#	M5042S	9345M	100k	9.315G-9.375G	1.5m	16k	20 △			MG	OS	FF	WA	5.0
72	MA249	9350M	17 †	9.25G-9.45G	CW	1100	50m			MG		MT	WA	800m
73♦	JAN2J42H	9375M	2.5 †	9.345G - 9.405G	.002	6000	5.5			MG	OS	FF	WA	3.0
74	2J42H	9375M	4.0	9.345G-9.405G	2.0m	6.0k	5.5			MG	OS	FF	WA	3.0
75	JAN2J42	9.375G	7.0	9.345G-9.405G*	2.5m		5.5			MG	OS	FF	WA	3.0 △
76▼#	M5111	9375M	12.5 †	9.350G-9.400G	1.5m	8500	10 △			MG	OS	FF	WA	3.25
77	2J42	9375M	14	9.345G-9.405G	2.5m	6.0k	5.5			MG	OS	FF	WA	3.0
78	QKH1121	9375M	14	9.175G-9.575G	2.0m	5.5k	4.5			MG	OS	FF	WA	3.0
79	725A	9375M	40	9.345G-9.405G	1.0m	16k	16			MG	OS	FF	WA	1.5
80	L3327	9375M	120 †	9.365G - 9.385G	.027	920	.60			MG	OS	MT	WA	1.0 △
81	7692	9375M	220	9.200G - 9.550G	.001	22500	.027			MG	OS	MT	WA	12
82	6959	9375M	450	9.330G-9.420G	1.1m	34k	38			MG	OS	FF	WA	45
83	QKH172	9375M	450	9.330G-9.420G	1.1m	30k	50			MG	OS	FF	WA	45
84	BLM188	9375M	600	9.250G-9.500G	2.0m	2.5k	1.5			MG	OS	MT	CO	440m△
85	BLM195	9375M	700	9.200G-9.550G	2.0m	2.5k	1.3			MG	OS	MT	CO	440m△
86	7446	9.375G	800	9.345G-9.405G	1.5m	2.9k	1.5			MG	OS		WA	
87#	9M71	9375M	3.0k	9.335G-9.405G	1.0m	3.5k	3.0			MG	OS	FF	WA	2.1
88▼	MA2822	9375M	3.5k	9.300G-9.500G	1.0m	3.5	3.0			MG	OS	FF	WA	1.0
89#	JP9-2.5H	9375M	4000	9.345G-9.405G	1.0m	3800	3.5 △			MG	OS	FF	WA	2.24
90	L4497	9375M	4k	9.345G-9.405G	.002	4k	3.0			MG	OS	FF	WA	2.5
91#	M5064H	9375M	4.0k	9.345G-9.405G	1.3m	3600	3.0 △			MG	OS	FF	WA	2.25
92▼#	9M62A	9375M	5000	9.345G-9.405G	2.5m	5000	5.0			MG	OS	FF	WA	2.2
93▼	MA2823	9375M	5.0k	9.300G-9.500G	1.0m	4.5	4.5			MG	OS	FF	WA	1.0
94#	9M62	9.375G	6000	9345M-9405M	2.5m	5000	5.0			MG	OS	FF	WA	2.2
95#	M5065	9375M	6.0k	9.345G-9.405G	2.0m	4600	4.5			MG	OS	FF	WA	
96	JP9-7D	9.375G	8.0k	9.345G-9.405G	2.0m	6.0k	6.0			MG	OS	FF	WA	
97	L4495	9375M	8k	9.345G-9.405G	.002	5.5k	5.0			MG	OS	FF	WA	3.0
98	M5019	9375M	8000	9.345G - 9.405G	.002	6000	5.0			MG	OS	FF	WA	3.25
99♦#	M5067	9375M	9000	9.345G-9.405G	2.5m	6000	5.5 △			MG †		FF	WA	3.25
100♦#	M5067H	9375M	9000	9.345G-9.405G	2.5m	6000	5.5 △			MG †		FF	WA	3.25
101#	M503A	9375M	9.5k*	9.345G-9.405G	2.5m	6.2k	5.5			MG	OS	FF	WA	3.25 *
102	JP9-7L	9375M	10000	9.345G-9.405G	2.0m	6.0k	6.0			MG	OS	FF	WA	3.10
103	L3635	9.375G	10k†	9.345G-9.405G*	2.0m	7.0k	7.0			MG	OS	FF	WA	3.75 △
104▼	MA2824	9375M	10k	9.300G-9.500G	1.0m	6.0	6.0			MG	OS	FF	WA	1.0
105#	M5031	9375M	10.5k	9.345G-9.405G	2.5m	6.2k	5.5			MG	OS	FF	WA	3.25
106♦#	2J42A	9375M	17500	9.345G-9.405G	2.5m	8000	7.5			MG †			WA	5.0 △
107#	2J42A-6027	9.375G	18k	9.345G-9.405G	2.0m	6.9k	7.5			MG	OS	FF	WA	3.09
108	6027	9.375G	18k†	9.345G-9.405G*	2.5m	8.0k	8.0			MG	OS	FF	WA	5.0 △
109#	JP9-15	9.375G	18k	9.345G-9.405G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.74
110#	JP9-15D	9.375G	18k	9.345G-9.405G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.74

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	L3431A	9375M	18000 †	9.345G - 9.405G	.001	8000	8.0			MG	OS	FF	WA	3.75 Δ
2#	9M40	9.375G	20k	9.345G-9.405G	2.5m	8.0k	8.0			MG	OS	FF	WA	3.5
3	6027H	9375M	20k	9.345G-9.405G	2.5m	8.0k	8.0k			MG	OS	FF	WA	5.0
4#	8356	9.375G	20k	9.345G-9.405G	2.5m	8.0k	8.0			MG	OS	FF	WA	3.25 *
5#	M5023	9.375G	20k	9.345G-9.405G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.25
6#	YJ1060	9.375G	20k	9.345G-9.405G	2.0m	7.2kØ	7.5			MG	OS	FF	WA	3.3
7#	YJ1110	9.375G	20k	9.345G-9.405G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.3
8#	M513A	9.375G	22k	9.345G-9.405G	2.5m	8.0k	8.5			MG	OS	FF	WA	5.0 *
9#	M513B	9.375G	22k	9.345G-9.405G	2.5m	8.0k	8.5			MG	OS	FF	WA	3.25 *
10#	M540B	9375M	22k	9.345G-9.405G	2.5m	8.0k	8.5			MG	OS	FF	WA	3.25
11	L3654A	9375M	24000 †	9.345G - 9.405G	.001	9000	9.25			MG	OS	FF	WA	3.75 Δ
12	L3890A	9375M	24000 †	9.345G - 9.405G	.001	8000	8.25			MG	OS			3.75 Δ
13	L3990	9.375G	24k	9.345G-9.405G	2.2m	8.0k	8.25			MG	OS	FF	WA	4.5
14#	M5039	9.375G	25kΔ	9.345G-9.405G	1.5m	8.5k	10			MG	OS	FF	WA	3.25 *
15	2J53	9375M	40k	9.345G-9.405G	1.0m	12000	12			MG	OS	FF	WA	1.50
16♦#	2J55	9375M	40000		2.5m	12000	12			MG	OS		WA	3.968
17	JAN2J55	9375M	40000 Δ	9.345G - 9.405G	.001	16000	16			MG	OS	FF	WA	4.0
18#	9M73	9375M	40k	9.345G-9.405G	1.0m	16k	16			MG	OS	FF	WA	5.6
19#	M177	9375M	40000	9.345G - 9.405G	.001	16000	16			MG	OS	FF	WA	4.4
20♦#	TH1725B	9375M	40k†	9.275G-9.475G	1.0m	12k	12 Ø			MG †	OS	MT	WA	
21#	YJ1200	9375M	50000 Δ	9.345G-9.405G	2.5m	13500	14			MG	OS	FF	WA	4.19
22#	M5005	9375M	53000 Δ	9.345G - 9.405G	.001	13500	12			MG	OS	FF	WA	3.75 *
23	4J52	9375M	65000	9.345G - 9.405G	.001	15000	15			MG	OS	FF	WA	6.0 Δ
24	L3036E	9375M	65000	9.375G	.001	15000	15			MG	OS	FF	WA	6.0 Δ
25	4J52A	9.375G	70k†	9.345G-9.405G*	1.0m	16k	15			MG	OS	FF	WA	6.0
26♦	JAN4J52A	9375M	70000 Δ	9.345G-9.405G	1.0m	16000	15			MG †		FF	WA	6.0
27	6510	9.375G	70k†	9.345G-9.405G*	1.0m	16k	15			MG	OS	FF	WA	6.0 Δ
28	JAN6510	9375M	80000 Δ	9.345G - 9.405G	.001	16000	16.5			MG	OS	FF	WA	
29#	JP9-75	9375M	80000	9.345G - 9.405G	.002	16000	17			MG	OS	FF	WA	4.7
30#	M575	9375M	80000	9.345G - 9.405G	.002	16500	18			MG	OS	FF	WA	5.0 Δ
31#	M5081	9375M	80k	9.345G-9.405G	1.2m	15500	15 Δ			MG	OS	FF	WA	5.0
32	L3156	9.375G	112k†	9.345G-9.405G*	2.0m	21k	16			MG	OS	FF	WA	10 Δ
33♦#	M5041	9375M	135000	9.345G-9.405G	1.0m	21000	18 Δ			MG †		FF	WA	10.5
34	L3039P	9375M	225000	9.345G - 9.405G	.001	22000	28			MG	OS	FF	WA	10 Δ
35♦#	MCF1510	9375M	225k†	9.345G-9.405G	1.0m	21.5k	27.5 Ø			MG †	OS	MT	WA	
36#	JP9-250	9375M	250000	9.345G - 9.405G	.001	23000	27.5			MG	OS	FF	WA	10
37	4J50	9375M	280000	9.345G - 9.405G	.002	24000	30			MG	OS	FF		10 Δ
38	L3030D	9.375G	300k†	9.345G-9.405G*	1.0m	29k	27.5			MG	OS	FF	WA	14 Δ
39#	M504	9.375G	750k	9.325G-9.425G	600u	38k	50			MG	OS	FF	WA	5.5 §
40	MA212B	9400M	1.5 †	8.80G-10.00G	CW	460	20mΔ			MG	OS	FF	WA	690m
41	MA212A	9400M	10 †	8.800G - 10.00G	.01	520	.15			MG	OS	FF	WA	
42	MA212C	9400M	10 †	8.800G - 10.00G	.01	520	.15			MG	OS	FF	WA	
43	MA212D	9400M	20 †	8.800G - 10.00G	.005	560	.30			MG	OS	FF	WA	
44	MA232B	9400M	20 †	8.800G - 10.00G	CW	930	.055			MG	OS	FF	WA	.69
45	7503	9400M	100 †	9.300G - 9.500G	.002	2000	1.15			MG	OS		CO	.37
46	MA232A	9400M	200 †	8.800G - 10.00G	.05	1000	.75			MG	OS	FF	WA	.69
47	MA2807	9400M	1.2k†	9.35G-9.45G	3.0m	4500	1.2			MG	OS	MT	WA	1.5
48#	M5097	9400M	6.75k	9.20G-9.60G	800	4600	5.0 Δ			MG	OS	MT	WA	2.75
49	DX373	9400M	70k	9.385G - 9.415G	.001	16000	15			MG	OS	FF	WA	6.0
50#	M596	9400M	80000	9.370G - 9.430G	.001	16000	15			MG	OS	FF	WA	5.25 *
51	L3039N	9.4G	225k†	9.38G-9.42G*	2.0m	23k	27.5			MG	OS	FF	WA	10
52#	M5021	9410M	1.4k	9.38G-9.44G	1.0m	2.0k	2.25			MG	OS	FF	WA	2.25
53#	YJ1390	9.410G	1.4k	9.380G-9.440G	1.0m	2.2k	2.5			MG	OS	FF	WA	2.25
54#	9M70	9.410G	2.5k	9.380G-9.440G	1.0m	3.5k	2.5			MG	OS	FF	WA	2.43
55#	JP9-2.5	9410M	3000	9.345G - 9.475G	.001	3800	3.5			MG	OS	FT	WA	2.2
56▼#	9M64A	9410M	5000	9.380G-9.440G	2.5m	5000	5.0			MG	OS	FF	WA	2.2
57#	9M80	9.410G	5.0k	9.380G-9.440G	2.5m	4.5k	3.5			MG	OS	FF	WA	3.10
58#	M5115	9410M	5.0k	9.380G-9.44G	2.5m	5.0k	5.0 Δ			MG	OS	FF	WA	3.25
59#	YJ1300	9410M	7000	9.38G-9.44G	1.0m	4600	6.0 Δ			MG	OS	FF	WA	2.75
60#	M5043	9410M	7.5k	9.38G-9.44G	800u	4.6k	6.0			MG	OS	FF	WA	2.75 *
61♦#	9M61	9410M	9000	9.380G-9.440G	2.5m	6000	5.5			MG †		MT	WA	
62#	M597	9.41G	9.5k	9.38G-9.44G	2.5m	6.2k	5.5			MG	OS	FF	WA	3.25 *
63#	M5108	9410M	9.5k	9.38G-9.44G	2.5m	6.0k	5.0 Δ			MG	OS	FF	WA	3.25
64	YJ1071	9410M	10500	9.380G - 9.440G	.002	5900	7.0			MG	OS	FF	WA	3.09
65♦#	9M90	9410M	20000	9.380G-9.440G	2.5m	8000	8.0			MG	OS	FF	WA	3.5
66#	M5025	9.41G	20k	9.38G-9.44G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.25
67	JP9-18	9410M	21k	9.38G-9.44G	1.5m	7.6k	10			MG	OS	FF	WA	3.74
68#	M598B	9.41G	22k	9.38G-9.44G	2.5m	8.0k	8.5			MG	OS	FF	WA	3.25 *
69#	9M72	9410M	25k	9.38G-9.44G	2.0m	8.5k	7.5			MG	OS	FF	WA	3.5
70#	M515	9.41G	25k	9.38G-9.44G	1.5m	8.5k	10			MG	OS	FF	WA	3.25 *
71#	YJ1120	9410M	25000	9.38G-9.44G	1.5m	8500	10 Δ			MG	OS	FF	WA	3.0
72#	9M31	9410M	40k	9.380G-9.440G	1.0m	16k	16			MG	OS	FF	WA	4.0
73♦#	M4505E	9410M	40000 †	9.370G - 9.440G	.001	16000	16			MG	†	FF	WA	5.6
74#	M505	9410M	45000	9.360G - 9.460G	.001	16000	12			MG	OS	FF	WA	1.75 §
75#	M506A	9410M	50000	9.360G - 9.460G	.001	15000	12			MG	OS	FF	WA	1.75 §
76	L3036A	9410M	65k†	9.405G-9.415G*	1.0m	16k	15			MG	OS	FF	WA	6.0 Δ
77#	M5089	9438M	30k	9.415G-9.46G	1.5m	8300	9.0 Δ			MG	OS	FF	WA	3.25
78#	JP9-2.5D	9445M	4000	9.415G-9.475G	1.0m	3800	3.5 Δ			MG	OS	FF	WA	2.24
79#	JP9-2.5E	9445M	4000	9.415G-9.475G	1.0m	3800	3.5 Δ			MG	OS	FF	WA	2.24
80#	JP9-2.5F	9445M	4000	9.415G-9.475G	1.0m	3800	3.5 Δ			MG	OS	FF	WA	2.24
81#	M599	9445M	4000	9.415G-9.475G	1.0m	3800	3.5			MG	OS	FF	WA	2.25 *
82#	9M65	9445M	5.0k	9.415G-9.475G	2.0m	5.0k	5.0			MG	OS	FF	WA	2.2
83#	M5044	9445M	7.5k	9.415G-9.475G	800u	4.6k	6.0			MG	OS	FF	WA	2.75 *
84▼#	9M66	9445M	9000	9.415G-9.475G	2.5m	6000	5.5			MG	OS	FF	WA	3.0
85#	M5024	9.445G	20k	9.415G-9.475G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.25
86#	BM1002	9.445G	21k	9.415G-9.475G	1.5m	8.2k	7.5			MG	OS	FF	WA	4.0
87#	M5022	9.445G	26k	9.415G-9.475G	1.5m	8.5k	10			MG	OS	FF	WA	3.25
88#	YJ1121	9.445G	26k	9.415G-9.475G	1.5m	8.5k	10			MG	OS	FF	WA	3.09
89#	M581	9445M	60000	9.415G - 9.475G	.001	16000	16			MG	OS	FF	WA	4.0 *
90#	BM1031	9.46G	40k	9.42G-9.5G	1.0m	14k	10			MG	OS	FF	WA	1.5 §
91#	M5062	9460M	50k	9440-9480M	1.0m	15k	12			MG	OS	FF	WA	1.75
92▼#	M5105	9475M	15 †	9.455G-9.495G	1.5m	8500	9.0 Δ			MG	OS	FF	WA	3.25
93#	BM1032	9.475G	50k	9.44G-9.51G	1.0m	18k	12			MG	OS	MT	WA	1.5 §
94	QKH1131	9476M	60	9.446G-9.506G	1.0m	16k	14.5			MG	OS	FF	WA	7.5
95	MA214	9.5G	500m†	9.0G-10G	CW	430	15m			MG	OS	MT		1.0
96	MA214B	9500M	1.0 †	9.000G - 10.00G	CW	470	.02			MG	OS	MT	WA	
97	MA214C	9.5G	8.0 †	9.0G-10G	5.0m	540	150m			MG	OS	MT	WA	
98	10X9-10	9500M	10 †	9.00G-10.00G	CW	2800	25mΔ			MG	OS	VT	CO	1.7 *
99	MA214D	9.5G	16 †	9.0G-10G	5.0m	570	300m			MG	OS	MT	WA	
100	50X9-10	9500M	50 †	9.00G-10.00G	CW	4500	55mΔ			MG	OS	VT	CO	4.5 *
101#	MAG12	9500M	2.0k	9.00G-10.00G	1.0m	2250	4.0 Δ			MG	OS	FF	WA	2.0
102#	MAG15	9500M	8.0k	9.00G-10.00G	1.5m	6100	6.5 Δ			MG	OS	FF	WA	4.0
103	L5209	9500M	10k	9.200G-9.800G	3.5m	6500	6.0			MG	OS	MT	WA	5.0
104#	BM1026	9.523G	50k	9.505G-9.54G	1.0m	16k	12			MG	OS	FF	WA	1.3 §
105#	MAG21A	9545M	100k	9.5G-9.59G	.001	18k	20			MG	OS		WA	7.5
106♦#	10M10	9550M	1000 †	9.520G-9.580G	1.0m	3450 Ø	2.5 Ø			MG †		FF	WA	4.2
107#	YJ1461	9550M	10000 Δ	9.30G-9.80G	1.0m	5000	5.2			MG	OS	MT	WA	5.0
108#	BM1035	9.55G	50k	9.52G-9.58G	1.0m	18k	12			MG	OS	MT	WA	1.5 §
109	VMX1031	9560M	11	9.400G-9.720G	2.0m	6.0k	7.0			MG	OS	MT	WA	4.4 Δ
110#	M5117	9560M	9.0k	9.40G-9.72G		5600	5.0			MG	OS	MT	WA	

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	BM1027	9.56G	50k	9.54G-9.58G	1.0m	16k	12			MG	OS	FF	WA	1.3 §
2	MA212	9.6G	1.0 †	8.8G-10G	CW	420	15m			MG	OS	FF		
3#	MG60T1	9600M	8.0k†	9300M-9900M	2.0m	6.0k	8.0			MG	OS	MT	WG	7.0
4#	BM1028	9.6G	50k	9.58G-9.62G	1.0m	16k	12			MG	OS	FF	WA	1.3 §
5#	MAG21B	9600M	100k	9.555G-9.645G	.001	18k	20			MG	OS		WA	7.5
6	L3509	9625M	700 †	8.775G - 10.47G	.25	5000	.70			MG	OS	MT	WA	18 △
7♦	L3463	9625M	1500 †	8.775G-10.470G	250m	6000	900m			MG #		MT	WA	18 △
8#	MAG23A	9.637G	3.0k	9.600G-9.675G	1.0m	2.3k	8.5			MG	OS	FF	WA	1.4
9#	BM1029	9.64G	50k	9.62G-9.66G	1.0m	16k	12			MG	OS	FF	WA	1.3 §
10#	M523	9643M	225k	9.580G - 9.705G	.002	23000	27.5			MG	OS	FF	WA	10.5 *
11#	M5068	9650M	25k	9.600G-9.700G	1.5m	8.5k	10			MG	OS	FF	WA	3.25
12#	M521	9650M	45000	9.600G - 9.700G	.001	16000	12			MG	OS	FF	WA	1.75 §
13#	BM1034	9.65G	50k	9.62G-9.68G	1.0m	18k	12			MG	OS	MT	WA	1.5 §
14#	MAG21C	9655M	100k	9.61G-9.7G	.001	18k	20			MG	OS		WA	7.5
15#	BM1030	9.678G	50k	9.66G-9.695G	1.0m	16k	12			MG	OS	FF	WA	1.3 §
16	MA278	9700M	1000 †	9.60G-9.80G	10m	2900	1.3 △			MG	OS	FF	WA	1.31
17	MA279	9700M	1000	9600M-9800M	5.0	2800	1.3			MG	OS	MT	WA	1.5
18#	MAG23B	9.713G	3.0k	9.676G-9.750G	1.0m	2.3k	8.5			MG	OS	FF	WA	1.4
19	80X9.5-10	9750M	80 †	9.50G-10.0G	CW	4200	70m△			MG	OS	VT	CO	4.5 *
20#	MAG23C	9.788G	3.0k	9.751G-9.825G	1.0m	2.3k	8.5			MG	OS	FF	WA	1.4
21#	BM1033	9.83G	50k	9.8G-9.86G	1.0m	18k	12			MG	OS	MT	WA	1.5 §
22#	MAG23D	9.863G	3.0k	9.826G-9.900G	1.0m	2.3k	8.5			MG	OS	FF	WA	1.4
23#	MAG17	10000M	180 △	9.00G-11.00G	10m	900	2.0			MG	OS	FF	CO	530m
24#	MAG20	10000M	250	9.00G-11.00G	1.4m	900	2.0 △			MG	OS	MT	CO	606m
25	QK427	10150M	10	10.05G-10.25G	CW	1400	150m			MG	OS	FF	WA	3.6
26▼	MA2810	13000M	50	12.500G-13.500G	2.0m	750	400m			MG	OS	FF	WC	1.5
27▼	MA2820	13000M	1.0k	12.000G-14.000G	2.0m	2.3	1.8			MG	OS	FF	WA	1.0
28	MA239B	13300M	10 †	13.00G - 13.60G	CW	800	.06			MG	OS	FF	WA	1.0
29	MA239A	13300M	100 †	13.00G - 13.60G	.10	900	.55			MG	OS	FF	WA	1.0
30	MA2805	13325M	20	13.29G-13.35G	500m	850	140m			MG	OS	FF	WA	1.0
31	L4370	13.325G	40 †	13.295G-13.355G*	250m	950	280m			MG	OS	FF	WA	1.56 △
32	MA239	13325M	40 †	13.29G - 13.35G	.25	850	.22			MG	OS	FF	WA	1.0
33	MA2808	13325M	40	13.29G-13.35G	250m	850	240m			MG	OS	FF	WA	1.0
34	BLM304	13325M	52	13.235G-13.415G	250m	1.0k	260m			MG	OS	FF	WA	1.57 △
35	MA281	13335M	28 †	13.30G-13.37G	500m	850	140m△			MG	OS	FF	WA	1.4
36	MA264	13.415G	28	13.28G-13.37G	500m	950	140m			MG	OS	FF	WA	
37	MA240	14150M	500 †	13.70G - 14.60G	.013	1700	1.4			MG	OS	FF	WA	1.0
38	MA240A	14150M	700 †	13.70G - 14.60G	.013	1750	1.8			MG	OS	FF	WA	1.0
39	MA240C	14150M	1000 †	13.70G-14.60G	5.0m	2100	2.0			MG		FF	WA	1.1
40▼	MA2811	15000M	50	14.500G-15.500G	2.0m	750	400m			MG	OS	FF	WC	1.5
41#	E3389	15G	250	13.0G-17.0G*	10m	900	2.0			MG	OS	FF	WA	770m
42	MA240B	15500M	20 †	15.45G-15.55G	500m	1100	60m			MG		FF	WA	1.5
43	MA245	15500M	20 †	15.40G - 15.60G	.50	1000	.14			MG	OS	FF		
44	L3958	15500M	10000		.002	5000	5.0			MG	OS	FF	WA	3.0 △
45	MA2801	15500M	15500M	1500G-16.00G	2.0m	750	400m			MG		FF	CO	1.5
46	L5113	15550M	2200	15.40G - 15.70G	.001	3500	3.0			MG	OS	MT	WA	1.5
47	MA258	15550M	2200	15.40G - 15.70G	.001	3600	3.1			MG	OS	MT	WA	1.44
48▼	JANDOD028	15550M	2500 †	15.40G-15.70G	5.0m	3800	3.0			MG	OS	MT	CO	3.5 △
49	VMU1018	15550M	2500	15.400G-15.700G	1.0m	6300	2.0			MG	OS	MT	WA	3.25
50	MA273	15725M	800 †	15.70G-15.75G	2.0m	2400	2.0			MG		MT	WA	1.2
51	MA274	15.725G	1.0k	15.9G-15.95G	1.0m	2.4k	2.0			MG	OS	MT	WA	
52	L5013	16000M	5000 †	15.50G - 16.50G	.01	4500 Ø	3.5			MG	OS	MT	WA	3.0 △
53#	M4537	16000M	75000	15.84G-16.16G	2.8m	26000	14			MG	OS	FF	WA	25
54	JAN7452A	16G	85000 △	15.840G-16.160G	2.8m	30000	30m			MG	OS	FF	WA	25
55	BLM071	16000M	100k△	15.90G - 16.10G	.001					MG	OS	FF		8.0
56	QK324	16005M	70k	15.85G-16.16G	2.8m	25000	12			MG	OS	FF	WA	
57	QKH1527	16200M	100	16.000G-16.400G	1.0m	16k	16			MG	OS	DT	WA	13
58	L3645	16.2G	4.0k†	16.1G-16.3G*	1.0m	4.3k	3.75			MG	OS	FF	WA	1.31 △
59	BLM198	16250M	70	16.00G-16.50G	1.0m	20k	17			MG	OS	MT	WA	6.0 △
60	MA287	16250M	500	16000M-16500M	2.0m	2150	1.4			MG	OS	FF	WA	750m
61	BLM143A	16.25G	1.0k†△	16G-16.5G	1.5m	3.1k	2.0			MG	OS	MT	WA	1.4
62	BLM310	16250M	1000	16.20G-16.30G	4.8m	3.1k	2.0			MG	OS	MT	WA	1.44 △
63	L3358	16250M	1000 †	16.00G - 16.50G	.003	3200	2.5			MG	OS	MT	WA	1.28 △
64	L3496A	16.25G	1.0k†	16G-16.5G	1.5m	3.1k	2.0			MG	OS	MT	WA	1.31 △
65	MA257	16250M	1000	16.00G - 16.50G	.002	2200	1.8			MG	OS	FF	WA	1.0
66	MA257T	16250M	1000 †	16.00G-16.50G	2.0m	2500	2.0			MG		MT	WA	750m
67	MA260	16250M	1000	16.00G - 16.50G	.002	2600	1.6			MG	OS	MT	WA	
68	L3359	16250M	2000 †	16.00G - 16.50G	.003	3700	3.0			MG	OS	MT	WA	1.28 △
69▼	MA2812	16250M	4.0k	16.000G-16.500G	1.0m	3.8	4.0			MG	OS	FF	WA	1.0
70	L3978	16250M	70000 †	16.00G - 16.50G	.001	18000	16			MG	OS	MT	WA	5.5 △
71	L3915	16280M	2200 †	16.26G - 16.30G	.003	3700	2.75			MG	OS	MT	WA	1.44 △
72	MA2802	16300M	500 †	16.10G-16.50G	2.0m	2400	1.4			MG	OS	MT	WA	810m△
73	8468	16500M	75	16.00G - 17.00G	.001	18000	.016			MG	OS	MT	WA	8.0
74	BLM162	16500M	10000 †	16.40G - 16.60G	.001	9000 Ø	5.25			MG	OS	FF	WA	1.25
75#	MAG19	16500M	35k	16.35G-16.65G	1.0m	11500	12			MG	OS	FF	WA	6.6
76	L3738	16500M	40000 †	16.35G - 16.65G	.001	14000	14			MG	OS	FF	WA	5.5 △
77	L3083	16500M	60000 †	16.00G - 17.00G	.001	18000	18			MG	OS	MT	WA	6.0
78	L3101A	16.5G	60k†	16G-17G*	1.0m	17k	16			MG	OS	MT	WA	5.5 △
79	L5330	16500M	60k	16.00G-17.00G	1.2	17000	20			MG	OS	DT	WA	8.0
80	DX290	16.5G	65k	15.9G-17.1G	1.1m	18k	17			MG	OS	MT	WA	7.0
81	L4419	16.5G	65k†	16.475G-16.525G*	1.0m	18k	18			MG	OS	FF	WA	5.0 △
82	L4472	16500M	65000 †	16.00G - 17.00G	.001	18000	18			MG	OS	MT	WA	6.05 △
83	VMU1032	16500M	65000 †	16.45G-16.55G	800u	15000	15 △			MG	OS	FF	CO	7.0
84	L3987	16.5G	75k†	16G-17G	1.2m	18k	16			MG	OS	MT	WA	7.5 △
85	L5115	16.5G	100k	16.4G-16.6G	800u	18k	18			MG	OS	MT	WA	7.0
86	JAN7208B	16500M	125k△	15.50G - 17.50G	.001	20000	20			MG	OS	MT	WA	14
87	JAN10658182	16500M	135k△	15.50G - 17.50G	.001	20000	20			MG	OS	MT	WA	14 △
88♦#	VF25	16500M	250000 *	16G-17G±40M§*	1.5m	25000	30			MG †		FF	WA	24.5 △
89♦#	VF20	16500M	400000 *	16G-17G±40M§*	1.5m	26000	40			MG Ø		FF	WA	1.25 △
90	JAN8827	16.512G	50k△	16.41G-16.625G	1.1m	16.5k	20			MG	OS	MT	WC	300m
91	BLM199	16517M	50k	16.410G-16.625G	1.0m	16000	1.35			MG	OS	FF	WA	5.5
92	VMU1021	16575M	50000 †	16.30G-16.85G	1.5m	14000	12 △			MG	OS	MT	CO	4.0
93	MA246	16600M	100 †	16.50G - 16.70G	.005	1150	.45			MG	OS	FF		
94	JAN7208	16600M	100000	16.00G - 17.20G	.001	20000	20			MG	OS	MT	WA	14 △
95	MA246A	16650M	150 △	16.50G - 16.80G	.005	1100	.45			MG	OS	FF	WA	1.0
96	L4451	16950M	35000 †	16.60G - 17.10G	.001	14000	13			MG	OS	MT	WA	5.0 △
97	6551	24G	40k							MG	OS	FF	WA	7.5
98	7449A	24000M	65000 †	23.90G - 24.10G	.001	17000	25			MG	OS	FF	WA	7.3 △
99	JAN6551	24.035G	40k△	23.8G-24.27G	700u	16k	18			MG	OS	FF	WA	7.5
100	BLM006	24.035G	40k†	23.8G-24.27G						MG	OS	FF	WA	470m
101#	25M10	24.5G	40k	24.255G-24.745G	700u	15k	18			MG	OS	FF	WA	
102	8366	33200M	50000 †	33.00G - 33.40G	.001	13000	25			MG	OS	FF	WA	10.5
103#	M5123	34500M	20k	34.00G-35.00G	600u	12.5k	12			MG	OS	MT	WA	4.5
104#	M5100	34500M	60k	33.00G-36.00G	500u	15k	15			MG	OS	FF	WA	4.75
105#	M5053	34800M	50k	34.3G-35.3G	500u	15k	15			MG	OS	FF	WA	10.5
106#	M5054	34800M	50k	34.3G-35.3G	500u	15k	16			MG	OS	FF	WA	10
107	L4516	34815M	110k†	34.70G - 34.93G	.001	21000	30			MG	OS	MT	WA	9.05 △
108	7093	34.85G	30k	34.512G-35.208G	300u	15k	16			MG	OS	FF	WA	4.2
109	L4064A	34.85G	125k†	34.7G-35G*	1.0m	21k	30			MG	OS	FF	WA	9.0 △
110	5789	34.86G	40k†	34.512G-35.208G	600u	13k	20			MG	OS	FF	WA	13

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	7619	34860M	40000 †	34.51G - 35.20G	.001	13000	25			MG	OS	FF	WA	9.0 Δ
2#	M5055	34900M	18k	34.4G-35.4G	500u	12.5k	10.5			MG	OS	FF	WA	4.5 *
3#	MG9T4	34900M	18k†	34400M-35400M	400u	12.5	9.0			MG	OS	FF	WG	4.0
4#	M5060	34950M	35k	34.70G-35.20G	500u	15k	15			MG	OS	MT	WA	10
5♦	BLM076A	35000M	1000	34.000G-36.000G	500	3500	4.0	32		MG	OS	MT	WA	1.4
6♦#	VF55	35000M	100000 *	34.60G-35.40G	1.0m	23000	20			MG †		FF	WA	10 Δ
7#	M5059	35500M	50k	34.50G-38.00G	500u	15k	15			MG	OS	EM	WA	10
8	MA2804	35700M	1000 †	35.40G-36.0G	2.0m	3600	1.75			MG		FF	WA	1.0
9	MA286	36000M	1000 †	35.70G-36.25G	2.0m	3600	1.75			MG	OS	MT	WA	1.0 Δ
10	BL235	52.5G	10k†	51G-54G	1.2m	14.5k	9.5			MG	OS	FF	WA	470m
11	BL236	55.5G	10k†	54G-57G	1.2m	14.5k	9.5			MG	OS	FF	WA	470m
12	BL237	58.5G	10k†	57G-60G	1.2m	14.5k	9.5			MG	OS	FF	WA	470m
13	BL246	69.75G	8.0k	68G-71.5G	500u	15k	9.0			MG	OS	FF	WA	7.25
14	BL221	69.75G	10k†	69G-70.5G	550u					MG	OS	FF	WA	470m
15	BL234C	70500M	400 †	69.50G - 71.50G	.001	3500	3.5			MG	OS	FF	WA	1.12
16	BL246A	70500M	10k	68.00G-71.50G	500u	14000	9.0			MG	OS	FF	WA	7.5
17▼#	M5137	80000M	800m	79.000G-81.000G	200u	13000	5.0 Δ			MG	OS	MT	WA	5.5
18#	M5057	80000M	6.0k	78.00G-82.00G	200u	13k	10			MG	OS	FF	WA	4.5
19▼#	M5124	81000M	1.0	80.5G-81.5G,1G⧄	200u	13000	5.0 Δ			MG	OS	DT	WA	5.0
20	DX423	95000M	8.0k	93.00G-97.00G	200u	10k	30			MG	OS	FF	WA	7.5
21	QKH1667	2800M	800k	2.700G-2.900G	1.1m	29k	70			MGC	OS	MT	WA	60
22	QKH1793	2800M	800000	2.70G-2.90G	1.0m	30000	650m			MGC	OS	MT	WA	90
23	SFD372	2800M	2200k	2.70G-2.90G	1.2m	52k	90			MGC	OS	MT	WA	105 Δ
24	SFD356	2880M	2.0M†	2.85G-2.91G	1.1m	58000	90 Δ			MGC	OS	FF	WA	85
25	VMS1056	3000M	1.0M†	2.89G-3.11G	1.1m	40500	90 Δ			MGC	OS	MT	WA	115
26	SFD383	5325M	1.0M†	5.25G-5.40G	1.1m	38000	65 Δ			MGC	OS	MT	WA	57
27	SFD344	5.6G	1.0M†	5.58G-5.62G	1.1m	35k	65			MGC	OS	FF	WA	56 Δ
28	SFD373E	5637M	230k	5.450G-5.825G	1.8m	28k	35			MGC	OS	MT	WA	33 Δ
29	8763	5637M	250000 †	5.45G-5.825G	1.2m	28000	35 Δ	12		MGC	OS	MT	WA	33
30♦#	MCV1420	5637M	250k†	5.450G-5.825G	1.0m	25k	24 Ø			MGC†	OS	MT	WA	
31	SFD341	5637M	250000 †	5.45G-5.825G	1.2m	28000	35 Δ	12		MGC	OS	MT	WA	33
32	SFD373	5637M	270k	5.450G-5.825G	1.2m	28k	35			MGC	OS	MT	WA	33 Δ
33♦#	TV313	5637M	1.0M†	5.450G-5.825G	1.0m	36k	60 Ø			MGC†	OS	MT	WA	
34	SFD347	5650M	120	5.400G-5.900G	6.3m	38k	65			MGC	OS	MT	WA	57 Δ
35	SFD313A	5.65G	1.0M†	5.4G-5.9G	1.1m	38k	65			MGC	OS	MT	WA	57 Δ
36	SFD313B	5650M	1.0M†	5.4G-5.9G	1.1m	38k	65 Δ			MGC	OS	MT	WA	57
37	VMC1005	5700M	1.4M†	5.4G-5.9G	750u	39k	80			MGC	OS	MT	WA	57 Δ
38▼	JANDOD031	8150M	87 †	7.800G-8.500G	1.25m	19500	20			MGC	OS	MT	WA	14.5
39	QKH1495	9050M	200	8.500G-9.600G	1.0m	23k	27.5			MGC	OS	MT	WA	14
40	QKH1578	9050M	200	8.500G-9.600G	1.0m	22k	27.5			MGC	OS	MT	WA	14
41#	YJ1210	9050M	200 †	8.50G-9.60G	1.0m	23000	27.5 Δ			MGC	OS	MT	WA	13.6
42	SFD354H	9050M	460	8.850G-9.250G	2.1m	23k	30			MGC	OS	DT	WA	15.5
43	JAN8947	9050M	65000	8.50G-9.60G	1.0m	13.7	16			MGC	OS	MT	WA	7.0
44	8947	9050M	70000	8.500G-9.600G	1.1m	15k	2.5			MGC	OS	DT	WA	8.0
45	SFD349H0-1	9050M	115k	8.500G-9.600G	2.1m	22k	30			MGC	OS	MT	WA	13.5 Δ
46#	8855	9.05G	200k	8.500G-9.600G	1.1m	24k	30			MGC	OS	MT	WA	13
47	JAN8855	9.05G	200k	8.5G-9.6G	1.1m	24k	30			MGC	OS	MT	WA	13
48	8945	9050M	200000 †	8.70G-9.40G	1.3m	24000	30			MGC	AM	MT	WA	13
49	L4575	9050M	200k	8.500G-9.600G	1.5m	23k	21.0			MGC	OS	MT	WA	13.0
50	L4581	9050M	200k	8.500G-9.600G	1.5m	23k	21.0			MGC	OS	MT	WA	13.0
51♦#	MCV1300	9050M	200k†	8.500G-9.600G	1.0m	22k	27.5 Ø			MGC†	OS	MT	WA	
52♦#	MCV1479	9050M	200k†	8.500G-9.600G	1.0m	22.5k	27.5 Ø			MGC†	OS	MT	WA	
53	SFD349	9050M	200000 †	8.50G-9.60G	1.1m	24000	30 Δ			MGC	OS	MT	WA	13.5
54	SFD352	9.05G	200k†	8.5G-9.6G	1.1m	24k	30			MGC	OS	MT	WA	12.5 Δ
55	SFD354A	9.05G	200k†	8.5G-9.6G	1.1m	24k	30			MGC	OS	DT	WA	16 Δ
56	SFD367	9050M	200k†	8.5G-9.6G	1.1m	24k	30			MGC	OS	DT	WA	15.5 Δ
57♦#	SFD381	9050M	200000	8.700G-9.400G	1.1m	22000	27.5			MGC	OS		WA	13.44
58	SFD386	9050M	200000 †	8.50G-9.60G	1.1m	24000	30 Δ			MGC	OS	MT	WA	13.5
59♦#	TH3043	9050M	200k†	8.500G-9.600G	1.0m	22k	27.5 Ø			MGC†	OS	MT	WA	
60▼#	TH3066	9050M	200k	8.500G-9.600G	1.0m	24000	27.5			MGC	OS	MT	WA	
61	JAN8945	9050M	220k	8.700G-9.400G	1.3m	24k	30			MGC	OS	MT	WA	13
62	QKH1709	9050M	220k	8.500G-9.600G	1.1m	22k	3.60			MGC	OS	MT	WA	15
63	SFD349F	9050M	230k	8.500G-9.600G	1.1m	22k	30			MGC	OS	MT	WA	13.5 Δ
64	SFD349FL	9050M	230k	8.500G-9.600G	1.1m	22k	30			MGC	OS	MT	WA	13.5 Δ
65	JAN8939	9050M	250k	8.500G-9.600G	1.0m	28k	30			MGC	OS	MT	WA	17
66	SFD304	9050M	250k†	8.500G - 9.600G	.001	28000 Ø	25 Ø			MGC	OS	MT	WA	19 Δ
67	SFD382	9050M	250000 †	8.50G-9.60G	1.0m	27000	30 Δ			MGC	OS	MT	WA	17
68	USAF304	9050M	250k†	8.5G-9.6G	1.1m	30k	32			MGC	OS	MT	WA	18 Δ
69	SFD375	9.05G	325k†	8.5G-9.6G	1.1m	30k	35			MGC	OS	MT	WA	18 Δ
70	SFD333	9050M	350000 †	8.50G-9.60G	2.1m	33000	35 Δ	12		MGC	OS	MT	WA	18
71	8896	9065M	200k	8.50G-9.63G	1.1m	27.7k	32			MGC	OS	MT	WA	19 Δ
72	QKH1512	9100M	200	8.600G-9.600G	1.1m	26k	32			MGC	OS	MT	WA	19
73	SFD333T	9100M	520	8.600G-9.600G	1.3m	34k	35			MGC	OS	MT	WA	22 Δ
74	QKH1553	9245M	75	9.205G-9.285G	1.0m	16k	14.5			MGC	OS	FF	WA	7.5
75	SFD370	9245M	75000 †	9.205G - 9.285G	.001	15000 Ø	13.5 Ø			MGC	OS	FF	WA	8.5 Δ
76	SFD354G	9250M	200000 †	9.00G-9.50G	2.1m	24000	30 Δ			MGC	OS	DT	WA	15.5
77	QKH1763	9300M	65k	9.10G-9.50G	1.0m	15000	15			MGC	OS	DT	WA	13
78	QKH1666	9300M	75k	9.100G-9.500G	1.0m	16k	2.5			MGC	OS	DT	WA	13
79	SFD380	9300M	90k	9.100G-9.500G	1.2m	16k	18			MGC	OS	MT	WA	10.5 Δ
80	SFD380A	9300M	95k	9.100G-9.500G	1.2m	16k	18			MGC	OS	DT	WA	10.5 Δ
81	VMX1090	9300M	200000 †	9.00G-9.60G	1.1m	22000	30 Δ			MGC	OS	MT	WA	13.5
82	QKH1665	9300M	220k	9.000G-9.600G	1.0m	23k	3.3			MGC	OS	DT	WA	17
83	QKH1708	9300M	220k	9.000G-9.600G	1.3m	22k	3.75			MGC	OS	MT	WA	11
84	SFD303B	9.330G	1.0k	9.300G-9.360G	1.0m	35	85			MGC	OS	FF	WA	46
85	VMX1026	9345M	7	9.330G-9.360G	1.3m	4.5k	6.0			MGC	OS	FF	WA	4.5 Δ
86	BLM313	9345M	2.5k	9.330G-9.360G	1.3m	8.25k	10			MGC	OS	FF	WA	7.0 Δ
87	BLM312	9345M	8.75k	9.330G-9.360G	1.3m	8.75k	10			MGC	OS	FF	WA	7.0 Δ
88	SFD305	9345M	28000 †	9.315G-9.375G	1.5m	8.750	12 Δ	12		MGC	OS	FF	WC	7.0
89	VMX1027	9345M	65000 †	9.325G-9.365G	1.3m	13500	12.5 Δ			MGC	OS	FF	WA	8.0
90▼#	M5138	9345M	75000	9.325G-9.365G	1.0m	13000	12			MGC	OS	FF	WA	
91	VMX1025	9375M	30	9.345G-9.405G	1.5m	8.25k	9.25			MGC	OS	FF	WA	6.0
92▼#	M5109	9375M	65 †	9.345G-9.405G	1.3m	13500	16 Δ			MGC	OS	FF	WA	7.5
93	QKH1592	9375M	70	9.345G-9.405G	1.0m	15k	15			MGC	OS	FF	WA	6.2
94	BLM311	9375M	75	9.345G-9.405G	1.3m	13.5k	12.5			MGC	OS	FF	WA	8.0 Δ
95	VMX1058	9375M	75	9.355G-9.395G	1.1m	16.5k	20			MGC	OS	FF	WA	7.5 Δ
96	L5359	9375M	6.5k†	9370M-9380M	1.3m	4.5k	1.7			MGC	OS	FF	WA	2.5 Δ
97	L5211	9.375G	24k†	9.345G-9.405G	1.5m	8.25k	8.25			MGC	OS	FF	WA	4.5
98	SFD363	9375M	60000 †	9.10G-9.65G	1.2m	16000	18 Δ			MGC	OS	MT	WA	10.5
99	USAF377A	9375M	70k†	9.355G-9.395G	1.1m	16k	17			MGC	OS	FF	WA	7 Δ
100	L5047	9.375G	75k		1.2m	13k	15			MGC	OS	FF	WA	6.0
101	SFD377A	9.375G	90k	9.355G-9.395G	1.0m	16k	17			MGC	OS	FF	WA	7.0
102	SFD380F	9375M	90000 †	9.30G-9.45G	1.2m	16000	22 Δ			MGC	OS	MT	WA	9.1
103▼#	LD4106/SFD349N	9375M	200000	9.200G-9.550G	1.1m	22000	27.5			MGC	OS		WA	13.44
104	SFD349N	9375M	230k	9.200G-9.550G	1.1m	22k	30			MGC	OS	MT	WA	13.5 Δ
105	VMX1004	9375M	230k	9.250G-9.500G	1.1m	24k	30			MGC	OS	DT	WA	15.5 Δ
106	SFD303	9375M	1.0M†	9.335G-9.405G	1.1m	34.5k	65			MGC	OS	FF	WA	46 Δ
107▼	JANDOD032	9500M	70 †	8.480G-9.620G	1.25m	19500	20			MGC	OS	MT	WA	13.5
108	QKH1693	9500M	135k	9.000G-10.00G	1.0m	19k	2.5			MGC	OS	MT	WA	13
109	JANDOD029	9525M	130000	9.05G-10.00G	1.1m	18700	14			MGC	OS	MT	WA	14
110	QKH1757	9525M	200000	9.05G-10.00G	1.0m	19000	18			MGC	OS	MT	CO	13

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	YJ1460	9550M	6.0	9.40G-9.70G	1.5m	3800	3.2			MGC	OS	MT	WA	4.0
2▼	JANDOD033	14600M	87 †	13.980G-15.220G	1.25m	19500	20			MGC	OS	MT	WA	16
3	L3958A	15000M	10000 †	14.91G - 15.08G	.002	5000	5.0			MGC	OS	FF	WA	3.0 △
4	JANDOD011	15550M	2.5k†	15.4G-15.7G	5.0m	3800	3.1			MGC	OS	MT	WA	4.0 △
5	L5328	15550M	2.5k	15.400G-15.700G	2.0m	3600	3.5			MGC	OS	MT	WA	3.0
6	BLM306	15550M	2.8k	15.40G-15.70G	5.0m	3.8k	3.1			MGC	OS	MT	WA	4.0 △
7♦#	MCV1170	16100M	8.0k†	16.000G-16.200G	2.0m	5.0k	6.0 Ø			MGC†	OS	MT	WA	
8	L5035	16200M	8000 †	15.90G - 16.50G	.04	5000	6.0			MGC	OS	MT	WA	3.0 △
9	L5271	16.250G	800	16.200G-16.300G	500u	3.000k	750m			MGC	OS	MT	WA	1.5
10	L5042	16250M	80000	16.00G - 16.50G	.001	18000	16			MGC	OS	MT	WA	5.0 △
11	8955	16250M	90k†	16G-16.5G	1.0m	17k	18			MGC	OS	MT	WA	12.5 △
12#	16M10	16350M	55000 †	16.00G-16.70G	1.0m	18000	18			MGC	OS	MT	WA	6.85 △
13	L5049	16475M	50000 †	16.12G - 16.82G	.001	13000	16			MGC	OS	MT	WA	3.05
14	QKH1325	16500M	65	16.500G-16.500G	1.0m	14k	14			MGC	OS	FF	WA	4.75
15	7208B	16500M	125	15.500G-17.500G	1.0m	20k	20			MGC	OS	MT	WA	14
16	L5200	16.5G	35k	16.0G-17.0G	1.5m	13.0k	15.0			MGC	OS	MT	WA	4.5
17▼#	LD4172/SFD325	16500M	40000	16.000G-17.000G	1.0m	16500	16			MGC	OS		WA	7.054
18	BLM181	16.5G	60k†	16G-17G	1.1m	15kØ	15			MGC	OS	DT	WA	7.75
19	SFD325	16500M	60000 †	16.00G-17.00G	1.0m	17000	18 △			MGC	OS	MT	WA	7.0
20	SFD325A	16500M	60000 †	16.00G-17.00G	1.0m	17000	18	12		MGC	OS	MT	WA	7.0
21♦#	TV1547	16500M	60k†	16.000G-17.000G	1.0m	16k	16 Ø			MGC†	OS	MT	WA	
22	VMU1000	16500M	60000 †	16.00G-17.00G	2.2m	15500	18 △			MGC	OS	MT	WA	9.0
23	JAN8943	16500M	65k*	16.465G-16.535G	720u	18000	17			MGC†	OS	FF	WA	5.75 △
24	8948	16500M	65000	16.200G-16.800G	1.0m	14k	2.6			MGC	OS	DT	WA	8.0
25	L4527	16.5G	65k	16.2G-16.8G	1.5m	16000	17			MGCØ	OS		WA	7.0
26	SFD342	16500M	65000 †	16.465G-16.535G	865u	18000	17 △			MGC	OS	FF	WA	5.75 △
27	VMU1102	16500M	65000	16.40G-16.60G	2.2m	15500	20 △			MGC	OS	MT	WA	6.9
28	BLM192	16500M	70k	16.0G-17.0G	1.2m	16k	18			MGC	OS	MT	WA	7.0 △
29	8949	16500M	95000 †	15.50G-17.50G	1.0m	16000	16			MGC	AM	MT	WA	13
30	7208	16500M	100k†	15.80G - 17.20G	.001	20000	20			MGC	OS	MT	WA	14 △
31#	YJ1400	16575M	57	16.30G-16.85G	1.2m	13000	13 △			MGC	OS		WA	3.7
32	L5223	16.750G	35k	16.750G-125.00G	400u	14.2k	4.4			MGC	OS	DT	WA	4.5
33	L5436	16.75G	35k	16.6G-16.9G	1.5m	13k	15.0			MGC	OS	MT	WA	4.5
34	BLM309	16750M	55k	16.40G-17.10G	1.0m	12.5k	15			MGC	OS	MT	WA	3.7 △
35	SFD345	16800M	38k	16.60G-17.00G	1.0m	14k	11			MGC	OS	DT	WA	5.2 △
36	QKH1302	16850M	35	16.600G-17.100G	1.0m	12k	9.5			MGC	OS	MT	WA	4.3
37	BLM183	16.85G	35k†	16.6G-17.1G	800u	13kØ	9.5			MGC	OS	MT	WA	5.0
38	QKH1516	16850M	35k	16.60G-17.10G	800u	12000	9.5			MGC	OS	MT	WA	4.30
39	L4555-8902	32600M	60k	32.100G-33.100G	1.0m	18000	20			MGC	OS	MT	WA	10
40	QKH1663	32.6G	70k	32.10G-33.10G	800u	18k	3.6			MGC	OS	MT	WA	13
41	SFD327W	34815M	105	34.700G-34.930G	700u	22.5k	32			MGC	OS	MT	WA	18 △
42	SFD319	34860M	50	34.512G-35.208G	550u	24k	25			MGC	OS	FF	WA	24
43	L4547	70.0G	10k†	68.0G-72.0G	550u	13k	10.0			MGC	OS	MT	WA	9.0
44♦	8682	3320M	50000 †	32.9G-33.5G	500u	19000	8.0m△	10		MGI	OS	MT	WA	17.5
45♦	SFD332	3320M	50000 †	32.9G-33.5G	500u	19000	8.0m△	10		MGI	OS	MT	WA	17.5
46♦	JAN8682	33.2G	50k†△	32.9G-33.5G	500u	20k	20			MGI	OS	MT	WA	17.5
47♦	VMA1043	34500M	56k	34.000G-35.000G	650u	16k	20			MGI	OS	DT	WA	9.2 △
48#	BS344	1300M	1000	1.20G-1.40G		120	200m△		15§	NS			WA	650m
49	6881	1410M		1.120G-1.700G		65	250m△		15.2§	NS			WA	
50	7101	1410M		1.120G-1.700G		125	250m△		18.0§	NS			WA	
51	7147	1410M		1.12G-1.70G		75	250m△		15.2§	NS			WA	
52	7992	1410M		1.12G-1.70G		145	250m△		18.0§	NS			WA	
53	7993	1410M		1.12G-1.70G		130	125m△		16.0§	NS			WA	
54	8292	1410M		1.12G-1.70G		175	150m△		16.0§	NS			WA	
55	6144	1500M		0.0G-3.00G		300	100m△			NS			CO	
56♦#	BS644	2500M	100 *	1.000G-4.000G	10m	21	20m		27§	NS ⧄			CO	286m
57▼#	BS762	3100M	500m*	2.700G-3.500G	CW	21	10m			NS ⧄			CO	286m
58♦#	BS698	3250M	100 *	3.000G-3.500G	10m	21	20m		27§	NS ⧄			CO	286m
59	6358	3275M		2.60G-3.95G		80	250m△		15.2§	NS			WA	
60	7148	3275M		2.60G-3.95G		165	250m△		17.7§	NS			WA	
61	8151	3275M		2.600G-3.950G		145	225m△		15.2§	NS			WA	
62	8286	3275M		2.60G-3.95G		265	225m△			NS			WA	
63	6782	3278M		2.608G-3.947G		44	250m△		8.85§	NS			WA	
64♦#	BS676	3300M	5000 *	3.100G-3.500G	1.0m	23	40m		16§	NS ⧄			WA	1.1
65▼#	BS648	3450M		33G-36G,1.0G△	CW	34	40m			NS ⧄			WA	617m
66♦#	BS758	3500M		34.75G-35.25G		35	35mØ		25§	NS ⧄			WA	617m
67♦#	BS646	5500M	100 *	1.000G-10.000G	10m	22	25m		16§	NS ⧄			CO	286m
68	6356	6075M		3.95G-8.20G		70	250m△		15.3§	NS			WA	
69	7989	6075M		3.95G-8.20G		110	250m△		18.0§	NS			WA	
70	7999	6075M		3.950G-8.200G		130	200m△		15.2§	NS			WA	
71	8287	6075M		3.95G-8.20G		210	200m△			NS			WA	
72	8288	7025M		5.85G-8.20G		225	150m△		18.0§	NS			WA	
73#	BS384	7500M	1500	3.00G-12.00G		55	250m△		15.5§	NS		BB		44m
74♦#	BS660	8800M	5000 *	8.500G-9.100G	1.0m	21	40m		16§	NS ⧄			WA	308m
75♦#	BS658	9000M	5000 *	8.800G-9.200G	1.0m	21	40m		16§	NS ⧄			WA	308m
76♦#	BS750	9300M		9.000G-9.600G		23	40m		20§	NS ⧄			WA	
77♦#	BS662	9300M	5000 *	9.000G-9.600G	1.0m	21	40m		16§	NS ⧄			WA	308m
78♦#	BS640	9500M	5000 *	9.300G-9.700G	1.0m	21	40m		16§	NS ⧄			WA	308m
79♦#	BS678	9550M	25000 *	9.400G-9.700G	1.0m	23	40m		13.2§	NS ⧄			WA	418m
80▼#	BS752	9750M	2.0 *	9.500G-10.000G	CW	22	30m			NS ⧄			CO	385m
81	6357	10300M		8.20G-12.40G		75	200m△		15.7§	NS			WA	
82	6882	10300M		8.20G-12.40G		115	200m△		18.0§	NS			WA	
83	8059	10300M		8.200G-12.400G		128	200m△		15.6§	NS			WA	
84	8152	10300M		8.200G-12.400G		200	125m△		15.6§	NS			WA	
85	8293	10300M		8.2G-12.40G		208	200m△			NS			WA	
86#	BS342	12500M		7.00G-18.00G		79	150m△		15.9*§	NS		BB	WA	440m
87♦#	BS674	13700M	5000 *	13.40G-14.00G	1.0m	23	40m		13§	NS ⧄			WA	264m
88	7991	15200M		12.40G-18.00G		135	200m△		18.2§	NS			WA	
89	8030	15200M		12.40G-18.00G		125	200m△		15.9§	NS			WA	
90	6359	22250M		18.00G-26.50G		68	200m△		15.9§	NS			WA	
91	7990	22250M		18.00G-26.50G		150	200m△		18.4§	NS			WA	
92	8031	22250M		18.00G-26.50G		125	200m△		16.0§	NS			WA	
93♦#	BS386	34500M	1500	33.00G-36.00G		48	125m△		16.3§	NS ⧄			WA	101m
94	759H		500	2%BW	CW	16k	260m	40		TWT	AM	FF	WA	7.5
95♦#	TH3505		1.25k†		10m	10.5k	1.2m	35†		TWT§	AM		CO	
96♦#	TH3516		1.25k†		10m	10.5k	1.2m	60†		TWT§	AM		CO	
97	763H		10000	5%BW	CW	21k	2.7	50		TWT	AM	FF	WA	45
98▼	WJ3632		30000	1.150G-1.400G	40m	20000	4.5 Ø	45	40	TWT#*	AM		CO	400
99♦	MA2016	300M	10	200M-400M	CW	550	175m	25		TWT	AM		CO	6.0 △
100♦	MA2015	300M	1.0k†	200M-400M	CW	2450	50m⧄	27†		TWT	AM		CO	50 △
101	MA2050	300M	10k	200M-400M	CW	9.0kØ	38.5mØ	10		TWT#	AM		CO	100 *
102♦	MA2023	375M	100 †	250M-500M	CW	1200	500m	27†		TWT			CO	31 △
103	VTP5231B1	425M	5.0k	400M-450M	.06	11.5k	2.5 Ø	37		TWT§	AM			60
104	QKW1630	450M	16k	400.0M-500.0M		41k	16	40		TWT	AM		CO	350
105♦	MA2010	525M	200 †	350M-700M	CW	1750	800m	24		TWT	AM		CO	31 △
106	VTP6332A1	525M	250 †	350.0M - 700.0M	CW	1750	.70	30†	35	TWT§	AM			55
107#	YH1011	535M	525	570M-600M	CW	3.5k	1.3	38	50	TWT	AM		CO	
108▼#	LD4065	550M	400	470M-640M	CW	3300	650m	38		TWT§	AM		CO	41.88
109▼#	LD4065A	550M	500	470M-640M	CW	3300	700m	38		TWT§	AM		CO	41.88 *
110	M5789	600M	20 †	4.00G-8.00G	CW	3400	100m	35†	35*	TWT§	AM		CO	3.0 △

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1♦	MA2003	600M	1.0k†	300M-900M	CW	2600	40m⧄	25*		TWT			CO	26 Δ
2#	W46D-2T	600M	1.0k	400M-800M	20m	5.0k	1.7	33		TWTØ	AM		CO	15
3#	1W31	600M	5000	470M-770M	CW	7000	5.0	30		TWT	AM		CO	440
4#	1W65	650M	60	400M-900M	CW	1800	200m	27		TWT	AM		CO	14.3
5	VTP6333A1	650M	250	600M-700M		3.1k	350m	27		TWT§	AM			15
6#	1W50	650M	400	400.0M - 900.0M	CW	4000	.90	37		TWT§	AM		CO	
7#	1W80	650M	2000	590M-770M	CW	7000	2.5	33		TWT	AM		CO	240
8#	LD4008	650M	2.0k	470M-770M	CW	7000	2.5	33		TWTØ	AM		CO	55
9#	YH1020	665M	125	470M-860M	CW	3300	800m	33		TWT†	AM		CO	95 *
10#	YH1010	665M	200	470M-860M	CW	3500	1.1	37		TWT†	AM		CO	95 *
11#	YH1210	665M	220	470M-860M	CW	4200	20m	30†		TWT†*	AM		CO	7.7
12#	YH1012	665M	250	470M-860M	CW	3500	1.1	38		TWT†	AM		CO	110 *
13#	E3080	670M	50 Δ	470.0M - 870.0M	CW	3300	.01	30		TWT*	AM		CO	2.0
14#	W48D-1T	670M	225	470M-860M	CW	5.0k	1.55	32†		TWTØ	AM		CO	137 *
15	VA651	675M	275 †	450.0M - 900.0M	CW	2100 Ø	.80	27†		TWT	AM			55
16	VTP6330A1	675M	300 †	450.0M - 900.0M	CW	2150	.65	30†	35	TWT§	AM			55
17#	W48D3T	680M	1100	470M-890M	CW	4000	1.55	25†		TWTØ	AM		CO	137 *
18♦	MA2009	700M	200 †	400M-1.000G	CW	2100	650m	24		TWT	AM		CO	31 Δ
19	STL405	700M	250	500.0M - 1.000G	CW	1900	.70	30		TWTØ	AM		CO	40 *
20▼#	1W20A	700M	500	660M-770M	CW	3300	700m	38		TWT§	AM		CO	35.27
21♦	MA2014	700M	1.0k†	400M-1.000G	CW	2450	40m⧄	26†		TWT	AM		CO	26 Δ
22#	VTP2619A1	715M	30	660M-770M	CW	25000	180m	25		TWT§	AM		CO	22 *
23#	1W67	715M	50	660M-770M	CW	2500	270m	28		TWT	AM		CO	15
24#	VTP2621A1	715M	50	660M-770M	CW	25000	180m	27		TWT§	AM		CO	14.3 *
25#	VTP2620A1	715M	200	660M-770M	CW	4000	65m	37		TWT§	AM		CO	35.2 *
26#	W45B/5E	715M	500 *	470.0M - 960.0M	CW	3300	.80	33		TWT†	AM		CO	95
27	VTP6334A1	725M	200	500M-1.000G		2.1k	650m	27		TWTØ	AM			55
28	JAN8878	750M		490M-1.010G				10†	20*	TWT†			WA	4.5
29	WJ278	750M	.0001 †	500.0M - 1.000G	CW	115 Δ⧄§		25†	5.0*	TWT†	AML		CO	17 Δ
30	M5351	750M	.01	500.0M - 1.000G	CW	325	.008	30	20	TWT§	AM		CO	
31	L2341	750M	1.0	500.0M-1.000G	CW	500	55m	27	25	TWT§	AM		CO	2.5
32	STL257	750M	2.0 †	500.0M - 1.000G	CW	700	.07	40	40	TWT§	AM		CO	11
33#	1W20	750M	300	500.0M - 1.000G	CW	3300	.80	33		TWT§	AM		CO	
34	MA2037	750M	400	500M-1000M	CW	2.1kØ	1.0	26		TWT	AM		CO	31 *
35	MA2070	750M	450 †	500M-1000M	CW	2.2kØ	830m⧄	25†		TWT	AM		CO	16 *
36♦	MA2072	750M	500 †	500M-1.000G	CW	2500	1.10 ⧄	27†		TWT			CO	17.5 Δ
37	M4383A	750M	1000	500.0M - 1.000G	.01	10000	3.0	30	35	TWT*§	AM		CO	
38♦	MA2017	750M	5.0k	500M-1.000G	CW	5000	4.5	27		TWT			CO	45 Δ
39	VTP6331A1	770M	500	650M-900M		2.4k	800m	30		TWTØ	AM			55
40	MA2033	775M	5.0 †	550M-1000M	CW	550	100m	30†		TWT#	AM		CO	4.0
41	VTP6331A2	775M	500	650M-900M	CW	2.500k	1.0	27		TWT	AM		CO	55 *
42♦	MA2024	775M	2.0k†	550M-1.000G	CW	3600	40m⧄	26†		TWT	AM		CO	27 Δ
43♦	WJ357	790M	16000	690M-890M	9.0m	16000	8.5 Ø	39	40	TWT§*	AM		CO	
44#	YH1014	870M	1000	755M-985M	CW	3600	1.2	36	37	TWT†	AM		CO	110 *
45	M5314	900M	100	7.000G - 11.00G	CW	6600	.20	30	35*	TWT§	AM		CO	5.5
46♦	MA2030	900M	1.0k	600M-1.200G	CW	2750	1.8	26		TWT	AM		CO	23 Δ
47	JANDOD017	1050M	4.0 †	3.00G-18.0G	CW	2100	45m	36†	22*	TWT§	AM	VT	CO	2.5
48♦	MA2011	1050M	350	700M-1.400G	CW	2000	50m⧄	28		TWT	AM		CO	18 Δ
49♦	MA2019	1050M	1.8k	700M-1.400G	CW	3400	2.1	26		TWT			CO	24 Δ
50	VTL5740A1	1075M	25k†Δ	950.0M - 1.200G	.01	22500 Ø	7.0 Ø	37†		TWT§	AM		CO	90
51▼	WJ3632-1	1200M	15000	1.000G-1.400G	3.0m	18000	4.2 Ø	30	40	TWT§*	AM		CO	55
52▼	WJ3632-2	1225M	25000	1.150G-1.300G	25m	19000	4.2 Ø	30	40	TWT§*	AM		CO	55
53	M5837	1275M	100 †	8.50G-17.00G	CW	9000	200m	35†	35*	TWT§	AM		WA	7.5 Δ
54	L5416	1275M	5.0k	1.250G-1.300G	40m	11k	2.5	55		TWT§	AM		CO	20
55	QKW1518	1275M	9.0k	1.150G-1.400G	60m	40k	13	50		TWT	AM		WA	110
56	QKW1671	1275M	9.0k	1.150G-1.400G	60m	40k	13	50		TWT	AM		CO	175
57	QKW1518SG	1275M	160kΔ	1.15G-1.40G	60m	40k	13	50		TWT*#	AM		WC	110 §
58	STL161	1285M	6000	1.210G - 1.360G	.006	14000	5.5	43		TWTØ	AM		CO	6.0 §
59#	N1017M	1300M	.002	1.200G - 1.400G	CW	400	.22m	26	6.5	TWT	AML		CO	1.5 §
60	STL199	1.3G	5.0k†	1.35G-1.45G	4.5m	12k	4.0	40		TWTØ	AM		CO	6.0 §
61▼	L5570	1300M	7000	1.200G-1.400G	40m	10800	2.7	50		TWT§	AM		CO	10
62	QKW1723	1300M	175k	1.175G-1.425G	67m	42k	14	45		TWT	AM		WA	190
63	QKW1701	1300M	300k	1.200G-1.400G	33m	48k	13	50		TWT	AM		WA	200
64	QKW1013	1308M	400	1.215G-1.400G	80m	12k	2.5	50		TWT	AM		CO	25
65	QKW1722	1308M	160k	1.215G-1.400G	67m	40k	14	50		TWT	AM		WA	220
66	VTL5341K1	1320M	5.0k	1.250G-1.400G	.06	10.5k	2.0 Ø	47		TWT§	AM			23
67▼	L5585	1350M	1000	700M-2000M	20m	7600	1.8	30		TWT§	AM		CO	11
68	VTL5240H1	1350M	5000 †Δ	1.200G - 1.500G	.03	10500 Ø	7.0 Ø	50†		TWT§	AM		CO	20
69	VTL5241A1	1350M	5000 †Δ	1.250G - 1.450G	.002	11000	3.5	33†		TWT§	AM		CO	10 Δ
70	VTL5341H1	1350M	5000 †Δ	1.200G - 1.500G	.03	10500 Ø	2.0 Ø	50†		TWT§	AM		CO	20
71	851H	1375M	20	13.5G-14.0G	CW	3550 Ø	50mØ	53		TWT§	AM		WA	1.63
72	1220H	1375M	20	13.5G-14.0G	CW	28 §Ø		53		TWT	AM		WA	10
73	VTL5741A1	1400M	30k†Δ	1.200G - 1.600G	.005	25000 Ø	8.0 Ø	37†		TWT§#	AM		CO	90
74♦	1177H08F	1425M	10	10.5G-18.0G	CW	120 §*Δ		30†	35*	TWT§	AM		CO	20 Δ⧄
75	WJ268	1500M	.0001 †	1.000G - 2.000G	CW	115 Δ⧄§		25†	5.0*	TWT†	AML		CO	17 Δ
76	WJ294	1500M	.005 †	1.000G - 2.000G	CW	115 Δ⧄§		25†	8.0*	TWT†	AML		CO	4.5 Δ
77	WJ294-5	1500M	.0055 †	1.000G - 2.000G	CW	115 §Δ⧄		28†	8.0*	TWT†	AML		CO	5.5 Δ
78	WJ405	1500M	.0055 †	1.000G - 2.000G	CW	115 §Δ⧄		25†	8.5*	TWT†	AML		CO	14.5 Δ
79	WJ457	1500M	.0055 †	1.000G - 2.000G	CW	28 §Ø		25†	8.0*	TWT§	AML		CO	6.0 Δ
80	M5352	1500M	.01	1.000G - 2.000G	CW	325	.003	30	15	TWT§	AM		CO	
81	M5387	1500M	.01	1.000G - 2.000G	CW	325	.003	30	20	TWT§	AM		CO	
82	WJ328-1	1500M	.01 †	1.000G - 2.000G	CW	115 Δ⧄§		35†	12*	TWT†	AML		CO	17 Δ
83	M5367	1500M	.02	1.000G - 2.000G	CW	325	.003	30	20	TWT§	AM		CO	
84♦#	F4123A	1500M	40m†	1.000G-2.000G	CW	250	2.0mØ	35†	9.0	TWT	AM		CO	2.20
85	L2342	1500M	1.0	1.0G-2.0G	CW	1.0k	45	30	21	TWT	AM		CO	3.0
86	M4268	1500M	1.0 †	1.000G - 2.000G	CW	600	.03	30†		TWT†	AM		CO	
87	VTL6040H1	1500M	1.0 †	1.000G - 2.000G	CW	650	.03	50†		TWT§*	AM		CO	1.63
88▼	WJ3500	1500M	1.0 †	1.000G-2.000G	CW	750	25m	30†	30*	TWT§*	AM		CO	1.75
89	M5375	1500M	2.0	1.000G - 2.000G	CW	750	.05	30	30	TWT§	AM		CO	
90	STL2221	1500M	2.0	1.000G - 2.000G	CW	1050	.035	60	38	TWT*§	AM		CO	8.5
91	VZL6040C1	1500M	2.0	1.000G-2.000G		115 Δ§				TWT	AM			
92	VZL6040D1	1500M	2.0	1.000G-2.000G		28 ⧄§				TWT	AM			
93	L2346	1500M	5.0	1.000G-2.000G				30	16	TWT§			CO	
94	417H	1500M	10	1.00G-2.00G	CW	1.5k	90m	30		TWT	AM	FF	CO	5.0
95	417HD	1500M	10 †	1.00G-2.00G	CW	1650	90m	30†	35*	TWT§	AM		CO	7.0
96	418H	1500M	10	1.00G-2.00G	CW		90m	30		TWT	AM	FF	CO	7.0
97♦	1177H09F	1500M	10	1.00G-2.00G	CW	120 §*Δ		30†	35*	TWT§	AM		CO	20 Δ⧄
98	L2331	1500M	10.0	1.000G-2.000G	CW	1500	100m	30	25	TWT§	AM		CO	3.0
99	L2339	1500M	10.0	1.000G-2.000G	CW	1500	100m	30	15	TWT§	AM		CO	3.0
100	L5036	1500M	10 †	1.000G - 2.000G	CW	1375	.08	30†		TWT*§	AM			3.0
101▼	L5573	1500M	10	1.000G-2.000G	CW	1400	120m	35		TWT§	AM		CO	3.0
102	856H	1500M	20	1.00G-2.00G	CW		90m	30		TWT	AM	FF	CO	7.0
103	1277H09F	1500M	20	1.00G-2.00G	CW	120 §Ø		30†	35*	TWT§	AM		WA	25 Δ
104	L5155	1500M	20 †	1.000G - 2.000G	CW	1375	.14	30†		TWT*§	AM		CO	3.0
105	L5560	1500M	20	1.00G-2.00G	CW	1.5k	160m	35	35	TWT§	AM		CO	3.5
106	M5788	1500M	20 †	1.00G-2.00G	CW	2100	160m	35†	35*	TWT§	AM		CO	5.0 Δ
107	VTL6140A1	1500M	20 †	1.000G - 2.000G	CW	1550	.10	35†	30	TWT§	AM		CO	6.5
108	VTL6140B1	1500M	20 †	1.000G - 2.000G	CW	1550	.10	35†	30	TWT§	AM		CO	6.5
109	VZL6941E1	1500M	20	1.000G-2.000G		115 Δ§				TWT	AM			
110	STL260	1500M	30	1.000G - 2.000G	.10	1900	.20	50	40	TWT*§	AM		CO	20

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	M5311	1500M	100 †	1.000G - 2.000G	CW	2800	.35	30†	32*	TWT§	AM		CO	
2	M5311K	1500M	100 †	1.00G-2.00G	CW	3000	400m	30†	35*	TWT§	AM		CO	7.5 △
3	M5477K	1500M	100 †	1.00G-2.00G	CW	3000	400m	30†	35*	TWT§	AM		CO	7.5 △
4	VTL6240A1	1500M	100 †	1.000G - 2.000G	CW	2900	.29	30†	35	TWT§	AM			7.75
5	VTL6240C1	1500M	100 †	1.000G - 2.000G	CW	2900	.29	30†	35	TWT§	AM			9.5
6	VZL6942E1	1500M	100	1.000G-2.000G		115 △§				TWT	AM			
7	M5670K	1500M	200 †	1.00G-2.00G	CW	3700	450m	30†	35*	TWT§	AM		CO	7.5 △
8	M5673K	1500M	200 †	1.00G-2.00G	CW	3700	450m	30†	35*	TWT§	AM		CO	7.5 △
9▼#	TH3531	1500M	200 †	1.000G-2.000G	CW	4800	360m	30†		TWT§	AM		CO	11
10	VTL6242C1	1500M	200	1.000G-2.000G		3.6k	470m	30		TWT§	AM		CO	14
11▼	L5568	1500M	1000	1.000G-2.000G	20m	7600	1.8	35		TWT§	AM		CO	11
12	WJ340	1500M	1200	1.000G - 2.000G	.01	5200	2.0	33		TWT*	AM		CO	18
13♦#	TH3518	1525M	9.5 †	1.350G-1.700G	CW	1.2k	50mØ	28†	20	TWT	AM		CO	1.87
14▼	291H#1	1540M	7.0	1.530G-1.550G	CW	2630	14mØ	23		TWT§	AM		CO	9.0
15▼	291H#2	1540M	26	1.530G-1.550G	CW	2630	27mØ	33		TWT§	AM		CO	9.0
16▼	291H#3	1540M	60	1.530G-1.550G	CW	2630	57mØ	47		TWT§	AM		CO	9.0
17	JAN8879	1.570G		990M-2.150G				10†	20*	TWT†			WA	4.5
18	QKW1750	1580M	1250	1.00G-2.50G	CW	6800	1.4	30		TWT	AM		CO	35
19♦#	TOP1294	1600M	200 †	1.000G-2.200G	CW	4.3k	320 Ø	30†	30	TWT	AM		CO	11.02
20♦#	F4189	1700M	10 †	1.300G-2.100G	CW	1.6k	45mØ	30†	30	TWT	AM		CO	3.74
21	MA2063	1750M	5.0 †	1.00G-2.500G	CW	6.3kØ	100m	33		TWT§*	AM		CO	4.0
22	MA2055	1750M	2.0k	1.00G-2.50G	CW	6.1kØ	1.45	26		TWT#	AM		CO	33 *
23#	LD837	1775M	21	1.700G - 1.850G	CW	3000	.055	32		TWT§	AM		CO	11
24♦#	TWS25	1785M	15.2	1.670G-1.900G		2400	75m	33	30	TWT§	AM		CO	
25	WJ280	1800M	.0001 †	1.000G - 2.600G	CW	115 △⧄§		35†	8.0*	TWT†	AML		CO	17 △
26♦#	F4064A	1800M	150u†	1.200G-2.400G	CW	300	6.0mØ	25†	4.0	TWT†	AM		CO	18.73
27▼#	TOP251A	1800M	150u†	1.200G-2.400G	CW	300	6.0mØ	25†	4.0	TWT†	AM		CO	18.73
28	M2102G	1800M	.005	1.000G - 2.600G	CW	500	1.5m	25	13	TWT*§	AML		CO	
29▼#	LD4067A	1800M	140	1.700G-1.900G	CW	3400	300m	35		TWT§	AM		CO	13.22 *
30	VTL6640A1	1800M	12000 †	1.750G - 1.850G	CW	20000	4.7	39†	45	TWTØ#	AM			175
31	414H	1900M	12	1.50G-2.3G	CW	1170 Ø	50mØ	30	30*	TWT§	AM		CO	1.32
32	419H	1900M	20	1.40G-2.40G	CW	1.7k	95m	30		TWT	AM	FF	CO	5.0
33♦	1177H10F	1900M	20	1.40G-2.40G	CW	120 §*△		36	35*	TWT§	AM		CO	20 △⧄
34	L5540	1900M	1500	1.85G-1.95G	130m	6500	1.1	60		TWT§	AM		CO	6.5
35	VA664A	1925M	13000	1.750G - 2.120G	CW	19500	4.9	45		TWTØ	AM			175
36	L5225	2.000G	10	1.700G-2.300G	CW	1.375k	110m	30		TWT§	AM		CO	3.5
37#	VTS2600A2	2000M	10 †	1.7G-2.3G	CW	2600	50m	40†		TWT§	AM		WA	3.0 §
38#	VTS2603A1	2000M	10	1.70G-2.30G	CW	2000	65m	30†	24	TWT	AM		CO	11
39#	VYS2603A1	2000M	10	1.70G-2.30G	CW	2000	65m	30†	24	TWT§	AM		CO	11
40#	VTS2600A1	2.0G	15 †	1.7G-2.3G	CW	3.0k	45m	26		TWT	AM		WA	3.0 §
41#	TWS10/7642	2.000G	18	1.700G-2.300G	CW	2500	75m	30	28	TWT§	AM		CO	6.75
42#	TWS36	2.000G	18	1.700G-2.300G	CW	2100	75m	30†	28	TWT§	AM		CO	7.0
43#	VTS2602B2	2000M	18	1.7G-2.3G	CW	2400	65m	34	29	TWT§	AM		CO	7.6 *
44#	RW2	2000M	20	1.70G-2.30G	CW	1800	100m	40	26	TWT§	AM		CO	27 *
45#	YH1000	2000M	22 †	1.700G-2.300G	CW	1200	80m	45†	28	TWTØ	AM		CO	17.6
46#	VTS2602A1	2000M	23	1.70G-2.30G	CW	2000	65m	39.5	23	TWT	AM		CO	7.6
47#	VYS2602A1	2000M	23	1.70G-2.30G	CW	2000	65m	39.5	23	TWT§	AM		CO	7.6
48#	LD821	2000M	25	1.700G - 2.300G	CW	2400	.065	39	29	TWT§	AM		CO	
49#	LD824	2000M	25	1.700G - 2.300G	CW	2400	.065	39	29	TWT§	AM		CO	
50#	LD745	2000M	27	1.700G - 2.300G	CW	2900	.065	35	24	TWT§	AM		CO	.60
51#	LD853	2000M	27	1.700G - 2.300G	CW	2900	.065	35	24	TWT§	AM		CO	
52#	YH1150	2000M	1.15k†	1.700G-2.300G	CW	10000	1.25	25†	35*	TWT	AM		CO	24.3
53	VTL6140B2	2050M	20 †	1.700G-2.400G	CW	1650	120m	30†	35*	TWT§	AM		CO	5.0
54♦	MA2032	2050M	800	1.600G-2.500G		4600	1.3	24		TWT			CO	35 △
55#	TL4	2075M	12	1.650G - 2.500G	CW	1300	.07	30		TWTØ	AM		CO	.508
56#	VTS2603B2	2100M	10	1.9G-2.3G	CW	2800	70m	38	20	TWT§	AM		CO	11 *
57♦#	TWS24	2115M	18.5	1.900G-2.330G		2400	75m	34.8	30	TWT§	AM			
58	1192H	2.115G	20	2.000G-2.330G	CW					TWT	AM			65
59♦#	TH3503	2200M	5.0 †	1.700G-2.700G	CW	1.1k	45mØ	35†	23	TWT	AM		CO	1.98
60♦#	F4017D	2200M	8.0 †	1.700G-2.700G	CW	1.7k	45mØ	30†	25	TWT	AM		CO	3.74
61♦#	TH3519	2200M	10 †	1.700G-2.700G	CW	1.2k	55mØ	30†	20	TWT	AM		CO	1.87
62#	TWS12	2.200G	20	1.700G-2.700G	CW	2500	75m	33†	28	TWT§#	AM		CO	6.75
63#	TWS32	2.200G	20	1.700G-2.700G	CW	2500	75m	33†	28	TWT§	AM		CO	7.0
64	WJ355	2250M	.003	2.200G - 2.300G	CW	115 △⧄§		25†	3.7*	TWT†	AML		CO	17
65	239H	2250M	3.6	2.200G - 2.300G	CW	700	.027	27		TWT§	AM		CO	1.0 △
66	242H	2.250G	10	2.200G-2.300G	CW	1.285k	37.5m	24		TWT	AM			1.25
67	1190H	2250M	10 †	2.20G-2.30G	CW	32 §Ø		30†		TWT	AM		CO	8.5 △
68	256H	2.250G	15	2.200G-2.300G	CW	1.200k	50m	30		TWT	AM			1.62
69♦	1226H	2250M	20	2.20G-2.30G	CW			27		TWT	AM	FF	CO	7.0
70	JAN8280	2300M	1.0	2.100G-2.500G	CW	1.1k	25m		30*	TWT§	AM		CO	6.5
71	214H	2300M	8.0	2.200G - 2.400G	CW	930	.04	27		TWT§	AM		CO	.94 △
72	L5160	2.400G	20		CW	2.000k	110m	35		TWT§	AM		CO	3.5
73▼	283H	2400M	100	2.200G-2.600G	CW	3300	99m	40		TWT	AM		CO	4.2
74	VTS6250H2	2400M	100	1.600G-3.200G		2.7k	300m	40		TWT§	AM		CO	7.0
75	MA2064	2400M	500 †	1.60G-3.20G	CW	5.5kØ	590m	23†		TWT*	AM		CO	8.5
76	JAN8279	2500M	12m	2.300G-2.700G	CW	525	4.0m		20†	TWT§	AM		CO	4.0 △
77	VTG6020A1	2500M	1.0 †	1.000G - 4.000G	CW	800	.05	30†		TWT§*	AM		CO	1.13
78	VZG6020C1	2500M	1.0	1.000G-4.000G		115 ⧄§				TWT	AM			
79	VZG6020D1	2500M	1.0	1.000G-4.000G		28 Ø§				TWT	AM			
80	JAN8258	2500M	2.0 †△	2.320G - 2.680G		1400	.045	30†	30*	TWT§	AM		CO	6.0
81	MA2060#1	2500M	300	1.50G-3.50G	CW	5.8k	450m	30		TWT#	AM		CO	10.5
82	MA2060#2	2500M	600	1.50G-3.50G	500m	5.8k	680m	36		TWT#	AM		CO	10.5
83▼	L5584	2500M	3000	2.400G-2.600G	40m	8000	1.7	30		TWT§	AM		CO	6.0
84#	VTS2604A1	2550M	10	2.40G-2.70G	CW	2000	65m	40	23	TWT	AM		CO	11
85#	VYS2604A1	2550M	10	2.40G-2.70G	CW	2000	65m	40	23	TWT§	AM		CO	11
86#	RW21	2600M	16	2.40G-2.80G	CW	1800	100m	40	25	TWT§	AM		CO	28.5 *
87	297H	2600M	50	2.500G-2.700G	CW	2.4k	62m	40		TWT	AM		CO	4.2
88	MA2086	2700M	500 †	1.50G-3.90G	CW	5.7kØ	590m	26†		TWT*	AM		CO	10
89	M5161	2770M	1.0 †	2.670G - 2.870G	CW	1300	.01	33†	15*	TWT§	AM		CO	
90	VTS4407P3	2800M	3.0m	2.700G-2.900G				25	4.5	TWT§	AML		CO	15
91▼#	LD570	2800M	30m	2.700G-2.900G	CW	700	200m	28	6.0	TWTØ	AML		CO	2.204
92▼#	LD638	2800M	30m	2.700G-2.900G	CW	700	200u	28	5.5	TWTØ	AML		WA	396m*
93	STS288	2800M	1.0	2.700G - 2.900G	CW	980	.033	53	35	TWT*§	AM		CO	3.0
94	EM118C	2800M	500 △	2.700G - 2.900G		5000	1.0	40		TWT*§				
95	EM114A	2800M	2000 †	2.700G - 2.900G	.02	8500	1.8	30		TWT§*	AM		CO	8.0
96	F2107	2850M	1800 †	2.6G-3.1G	6.0m	7700	2.0	35.5†		TWT§	AM		CO	6.25
97	VTS4450P2	2900M		2.700G-3.100G				23	5.0	TWT§	AML		CO	11
98	M5237	2900M	.001 †	2.600G - 3.200G	CW	500	.006	14†	25*	TWT§	AM		CO	
99	VTS4407P1	2900M	3.0m	2.700G-3.100G				23	5.0	TWT§	AML		CO	15
100	VTS4413P3	2900M	16m	2.70G-3.10G		115 §△⧄		28	5.1	TWT§	AML		CO	7.5
101	VTS5352B1	2900M	2.0k†	2.700G-3.100G	10m	9500	1.8	40†		TWT§*	AM		CO	10
102	VTS5352H1	2900M	2000 †△	2.700G - 3.100G	.01	8500 Ø	1.4 Ø	60†		TWT§	AM		CO	12
103	VTS5250A1	2900M	3000 †△	2.700G - 3.100G	.02	10000	2.2	44		TWT§#	AM		CO	11 △
104	VTS5253A2	2.9G	3.0k	2.7G-3.1G	5.0m	9.0k	1.6	40		TWT	AM		CO	10
105	VTS5252A1	2900M	5000 †△	2.700G - 3.100G	.01	12500	3.5	37†		TWT§	AM		CO	10
106	VTS5351A1	2900M	5000 †△	2.700G - 3.100G	.005	13000 Ø	2.5 Ø	37†		TWT§	AM		CO	10
107#	N1047M	2950M	.0015	2.700G - 3.200G	CW	500	.20m	24	4.0	TWT	AML		CO	1.75 §
108#	TH9140	2975M	6000	2.8G-3.15G	2.0m	14500	3.0	33		TWT§				
109	VTS4451H1	3000M		2.000G-4.000G		115 ⧄△§		35	15	TWT§	AML		CO	8.0
110	VTS4451P1	3000M		2.000G-4.000G				20	15	TWT§	AML		CO	8.0

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE ·TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	WJ269	3000M	.0001 †	2.000G - 4.000G	CW	115 Δ⧄§		25†	5.5*	TWT†	AML		CO	17 Δ
2#	W10MQ/5A	3000M	.001 *	2.700G - 3.300G	CW			25	5.0*	TWT†	AML		CO	30
3#	W10PQ/5A	3000M	.001 *	2.700G - 3.300G	CW	240 §Δ		25	5.0*	TWT†	AML		CO	30
4♦#	F4129	3000M	1.5m†	2.900G-3.100G	CW	450		30†	6.0	TWT†	AM		CO	16.09
5	VTS4407P2	3000M	3.0m	2.900G-3.100G				25	4.5	TWT§	AML		CO	15
6	VTS4407P6	3000M	3.0m	2.700G-3.300G				23	5.5	TWT§	AML		CO	15
7	M2103NA	3000M	.005	2.000G - 4.000G	CW	450	.002	30	11	TWT*§	AML		CO	
8	VTS4413P5	3.0G	5.0m†	2.9G-3.1G	CW	§		27†	5.5*	TWT§	AML		CO	8.0
9	WJ295	3000M	.005 †	2.000G - 4.000G	CW	115 Δ⧄§		25†	8.5*	TWT†	AML		CO	4.5 Δ
10	WJ295-5	3000M	.0055 †	2.000G - 4.000G	CW	115 §Δ⧄		28†	8.5*	TWT†	AML		CO	6.0 Δ
11	WJ406	3000M	.0055 †	2.000G - 4.000G	CW	115 §Δ⧄		25†	8.5*	TWT†	AML		CO	14.5 Δ
12	WJ458	3000M	.0055 †	2.000G - 4.000G	CW	28 §Ø		25†	8.5*	TWT§	AML		CO	6.0 Δ
13	VTS4413P1	3.0G	6.0m†	2.0G-4.0G	CW	§		25†	8.0*	TWT§	AML		CO	8.0
14	JAN8225	3000M	10m†	2.000G-4.000G	CW	400	4.0m		25*	TWT	AM		CO	1.0 Δ
15	L2327	3000M	10m	2.000G-4.000G				30		TWT§			CO	
16	L2333	3000M	.01	2.000G-4.000G	CW	425	2m	30	20	TWT§	AM		CO	2.0
17	L5014	3000M	.01 †	2.000G - 4.000G	CW	500	.005	13†		TWT§	AM		CO	.044
18	M4325	3000M	.01 †	2.000G - 4.000G	CW	600	.006	35†		TWT	AM		CO	
19	M4326	3000M	.01 †	2.000G - 4.000G	CW	500	.005			TWT§	AM		CO	
20	M5353	3000M	.01	2.000G - 4.000G	CW	425	.003	30	15	TWT§	AM		CO	
21	M5517	3000M	.01	2.000G - 4.000G	CW	450 §	.002	35	10	TWT§	AML		CO	
22	M5633	3000M	.01 †	2.000G - 4.000G	CW	450	1.5m	40†	10*	TWT§	AML		CO	4.0
23	VTS4350P1	3000M	10m	2.000G-4.000G		115 §Δ⧄		27	7.8	TWT§	AML		CO	5.0
24	VTS4350P3	3000M	10m	2.000G-4.000G		115 §Δ⧄		38	7.8	TWT§	AML		CO	5.0
25	WJ329-1	3000M	.01 †	2.000G - 4.000G	CW	115 Δ⧄§		35†	12*	TWT†	AML		CO	17 Δ
26	WJ422	3000M	.01 †	2.000G - 4.000G	CW	115 §Δ⧄		25†	7.5*	TWT§	AML		CO	6.5 Δ
27	WJ462	3000M	.01 †	2.000G - 4.000G	CW	115 §Δ⧄		40†	10*	TWT§	AML		CO	4.0 Δ
28	M5368	3000M	.02	2.000G - 4.000G	CW	425	.003	30	20	TWT§	AM		CO	
29#	W10ML/6A	3.0G	20m*	2.0G-4.1G	CW	500	800u	35*	17	TWT†	LIM		WA	18
30	WJ486	3000M	20m	2.000G-4.000G	CW	125		43	12	TWT§	LIM		CS	3.5 Δ
31	VTS4413P2	3000M	25m	2.00G-4.00G		115 §Δ⧄		29	8.0	TWT§	AML		CO	7.5
32	VTS4351H1	3000M	100m	2.000G-4.000G		115 ⧄Δ§		35	15	TWT§	AML		CO	5.0
33	WJ477	3000M	100m	2.000G-4.000G	CW	125	220mØ	30	11	TWT†	AML		CS	7.0 Δ
34	WJ3003	3.0G	100m†	2.0G-4.0G	CW	115 §Δ⧄		30†	10*	TWT	AML		CO	18 Δ
35	M5608	3000M	.64 †	2.000G - 4.000G	CW	1300	.01	35†	12*	TWT§	AM		CO	4.5
36	8778	3000M	1.0	2.000G - 4.000G	CW	1400	.015	38	15	TWT§	AM		CO	
37	EM1006	3000M	1.0 †	2.000G - 4.000G	CW	3000	.025	40	30	TWT†	AM		CO	4.5 *
38	EM1026	3000M	1.0 †	2.000G - 4.000G	CW	1300	.04	35		TWT§	AM		CO	2.0 *
39	L2302	3000M	1.0	2.000G-4.000G				30	25	TWT			CO	
40	L2330	3000M	1.0	2.000G-4.000G	CW	1100	25m	35	13	TWT§	AM		CO	2.5
41	L2343	3000M	1.0	2.0G-4.0G	CW	1.0k	25	30	25	TWT	AM		CO	3.0
42	L2379	3000M	1.0	2.00G-4.00G	CW	1.0k	25m	30	27	TWT§	AM		CO	3.0
43	L5070	3000M	1.0 †	2.000G - 4.000G	CW	950	.04	60		TWT*§	AM		CO	1.75
44	M4260	3000M	1.0 †	2.000G - 4.000G	CW	1000	.045	30†	30*	TWT§	AM		CO	
45	MA2044	3000M	1.0 *	2.00G-4.00G	100m	1.1kØ	40m			TWT§	AM		CO	630m
46	STS284	3000M	1.0	2.000G - 4.000G	CW	950	.033	53	35	TWT§	AM		CO	3.0
47▼	WJ3501	3000M	1.0 †	2.000G-4.000G	CW	950	25m	30†	30*	TWT§*	AM		CO	1.75
48	543H	3.000G	1.5	2.900G-3.100G	CW	500	27m	38		TWT	AM		CO	1.56
49	L2347	3000M	2.0	2.000G-4.000G	CW	900	45m	35	25	TWT§	AM		CO	2.5
50	L3971	3000M	2.0 †	2.000G - 4.000G	CW	950	.04	50†		TWT*§	AM		CO	1.75 Δ
51	L5007	3000M	2.0 †	2.000G - 4.000G	CW	1000	.04	36†		TWT*§	AM		CO	1.05
52	M5376	3000M	2.0	2.000G - 4.000G	CW	950	.045	30	30	TWT§	AM		CO	
53#	TWS7	3000M	2.0	2.450G - 3.550G	CW	2500	.025	20†	30*	TWTØ	AM		CO	1.25 §
54	VTS6050A2	3000M	2.0 †	2.000G - 4.000G	CW	1200	.04	40†		TWT§*	AM		CO	1.13
55	VZS6050C1	3000M	2.0	2.000G-4.000G		115 ⧄§				TWT	AM			
56	VZS6050D1	3000M	2.0	2.000G-4.000G		28 Ø§				TWT	AM			
57	VTS6050H5	3000M	5.0 †	2.000G - 4.000G	CW	1200	.065	50†		TWT§*	AM		CO	1.13
58	VZS6050C2	3000M	5.0	2.000G-4.000G		115 ⧄§				TWT	AM			
59	VZS6050D2	3000M	5.0	2.000G-4.000G		28 Ø§				TWT	AM			
60▼	WJ3800	3000M	5.0	2.000G-4.000G	CW	1250	45mØ	36	20	TWT§	AM		CO	2.5
61♦#	TH9131	3000M	6.0 †	2.700G-3.300G	CW	2.2k	70mØ	23†		TWT	AM		CO	
62	1233H	3000M	8.0 †	2.00G-4.00G	CW	115 §⧄		35†	35*	TWT§	AM		CO	18.5 ⧄
63♦#	TOP1289	3000M	8.0 †	2.000G-4.000G	CW	1.9k	50mØ	35†	26	TWT	AM		CO	1.54
64	564H	3.000G	10	2.000G-4.000G	CW	1.500k	80m	30		TWT§	AM			5.0
65	564HD	3000M	10 †	2.00G-4.00G	CW	1500	80m	30†	35*	TWT§	AM		CO	3.0
66♦	1177H01F	3000M	10	2.00G-4.00G	CW	120 §*Δ		30†	35*	TWT§	AM		CO	20 Δ
67	L2332	3000M	10.0	2.000G-4.000G	CW	1200	50m	30	25	TWT§	AM		CO	2.5
68	L5010	3000M	10 †	2.000G - 4.000G	CW	1750	.10	33†		TWT*§	AM		CO	2.05
69▼	L5574	3000M	10	2.000G-4.000G	CW	2000	90m	35		TWT§	AM		CO	3.0
70♦	VTS6055A1	3000M	10 †	2.000G-4.000G	CW	1900	100m	35†	30*	TWT§*	AM		CO	2.0
71	VZS6950E2	3000M	10	2.000G-4.000G		115 Δ§				TWT	AM			
72	1277H01F	3000M	20	2.00G-4.00G	CW	120 §Ø		30†	35*	TWT§	AM		WA	20 Δ⧄
73	L5561	3000M	20	2.00G-4.00G	CW	2.0k	110m	35	35	TWT§	AM		CO	3.0
74	M5754	3000M	20 †	2.00G-4.00G	CW	2100	130m	35†	35*	TWT§	AM		CO	3.0 Δ
75	VTS6150A1	3000M	20 †	2.000G - 4.000G	CW	1800	.12	35†	35	TWT§	AM		CO	3.0
76	VTS6150B1	3000M	20 †	2.000G - 4.000G	CW	1800	.12	35†	35	TWT§	AM		CO	3.0
77	VTS6150H1	3000M	20 †	2.000G - 4.000G	CW	1800	.12	54†	35	TWT§	AM		CO	3.5
78	VTS6150J1	3000M	20 †	2.000G - 4.000G	CW	1800	.12	54†	35	TWT§	AM		CO	3.5
79	VZS6951E1	3000M	20	2.000G-4.000G		115 Δ§				TWT	AM			
80	WJ3850	3000M	25 †	2.000G-4.000G	CW	3800	190m	25†		TWT*	AM		CS	2.5 Δ
81♦#	TH9121A	3000M	30 †	2.700G-3.300G	10m	2.3k	160m	30†		TWTØ	AM		CO	
82	L5095	3000M	50 †	2.000G - 4.000G	.10	3600	.325	42†		TWT*§	AM		CO	2.05
83	WJ3851	3000M	50 †	2.000G-4.000G	CW	3800	195m	30†		TWT*	AM		CS	2.5 Δ
84	QKW750B	3000M	60	1.26G-2.90G	21m	37000	14	20		TWT	AM		WA	28
85	M5312	3000M	100 †	2.000G - 4.000G	CW	3800	.26	30†		TWT§	AM		CO	
86	M5312K	3000M	100 †	2.00G-4.00G	CW	4000	330m	30†	35*	TWT§	AM		CO	7.5 Δ
87	M5478K	3000M	100 †	2.00G-4.00G	CW	4000	330m	30†	35*	TWT§	AM		CO	7.5 Δ
88	VTS5150A1	3000M	100 †Δ	2.000G - 4.000G	.02	4700 Ø	1.0 Ø	36†		TWT§	AM		CO	7.5
89	VTS6250A1	3000M	100 †	2.000G - 4.000G	CW	3100	.30	30†	35	TWT§	AM			6.0
90	VTS6250C1	3000M	100 †	2.000G - 4.000G	CW	3100	.30	30†	35	TWT§	AM			6.0
91	VTS6250H1	3000M	100 †	2.000G - 4.000G	CW	3100	.30	50†	40	TWT§	AM			6.5
92	VTS6250J1	3000M	100 †	2.000G - 4.000G	CW	3100	.30	50†	40	TWT§	AM			6.5
93	VZS6952E1	3000M	100	2.000G-4.000G		115 Δ§				TWT	AM			
94▼	WJ3852	3000M	100	2.000G-4.000G	200m	3700	210mØ	38	35	TWT§*	AM		CO	2.5
95▼	WJ3853	3000M	125	2.500G-3.500G	200m	3800	230mØ	40	35	TWT§*	AM		CO	2.5
96	562H#1	3000M	200	2.00G-4.00G	CW	8.2k	500m	23		TWT§#	AM		CO	10
97	M5605	3000M	200	2.000G - 4.000G	CW	4500	.40	30		TWT§	AM		CO	
98	M5605K	3000M	200 †	2.00G-4.00G	CW	4700	440m	30†	35*	TWT§	AM		CO	7.5 Δ
99	M5662K	3000M	200 †	2.00G-4.00G	CW	4700	440m	30†	35*	TWT§	AM		CO	7.5 Δ
100▼#	TH3532	3000M	200 †	2.000G-4.000G	CW	5100	330m	30†		TWT	AM		CO	8
101	VTS6250A3	3000M	200	2.000G-4.000G		3.2k	390m	30		TWT§	AM		CO	7.0
102	VTS6252C1	3000M	200	2.000G-4.000G		3.2k	410m	35		TWT§	AM		CO	7.0
103	L5281	3.000G	250	2.000G-4.000G	CW	5000	500m	40		TWT§	AM		CO	9.0
104▼	WJ3613-1	3000M	250	2.000G-4.000G	CW	5000	450mØ	30	40	TWT§*	AM		CO	10
105▼	WJ3613-2	3000M	250	2.000G-4.000G	CW	5000	450mØ	30	40	TWT§	AM		CO	10
106#	CV6223	3000M	350 Δ	2.700G - 3.300G	.005	8500	.15	31		TWT	AM		CO	5.07
107	M5848	3000M	350 †	2.00G-4.00G	CW	6200	700m	34†		TWT§#	AM		CO	6.0 Δ
108	551H	3000M	1000 †	2.000G - 4.000G	CW	8000	1.5 Ø	30		TWTØ#	AM		WA	22 *
109	554H	3000M	1000 †	2.000G - 4.000G	.02	9000	2.0	30		TWT§	AM		CO	8.0
110	562H#2	3000M	1.0k	2.00G-4.00G	50m	8.2k	2.1	33		TWT§#	AM		CO	10

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUT PUT	WEIGHT (lb)
1	1197H	3.000G	1.0k	2.500G-3.500G	20m					TWT	AM			75
2	7640	3000M	1000 †	2.000G - 4.000G	.01	8000	2.0	30		TWT§	AM		CO	17.5
3	JAN7640	3000M	1000 △	2.900G - 3.100G	.006	8000	2.0	33†		TWT§	AM		CO	17.5 △
4	JAN8175	3000M	1000	2.900G - 3.100G	.006	8000	1.7			TWT§	AM		CO	14 △
5	EM113	3000M	1000 †	2.000G - 4.000G	.02	8000	1.8	30		TWT§	AM		CO	10
6	EM117	3000M	1000	2.900G - 3.100G	.02	8000	1.7	30		TWT§	AM		CO	
7	F2125	3000M	1000	2.0G-4.0G	.01	7800	1.59	30		TWT§	AM		CO	11.0
8	F2577	3000M	1000	2.000G - 4.000G	.025	9000	1.8	35†		TWT§*	AM		CO	8.5
9	F2578	3.000G	1.0k	2.000G-4.000G	50m	8.000k	1.8	35†		TWT§*	AM		CO	6.0
10	L5135	3000M	1000 †	2.000G - 4.000G	.04	9000	2.0	35†		TWT*§	AM		CO	7.0
11	L5219	3000M	1000	2.000G-4.000G	50m	9000	2.1	36		TWT§	AM		CO	7.5
12	L5283	3.000G	1000	2.000G-4.000G	10m	9.000k	2.1	50		TWT§	AM		CO	7.5
13	L5336	3000M	1000	2.000G-4.000G	20m	9000	2.1	35		TWT§	AM		CO	6.0
14	MA2038	3000M	1.0k†	2.50G-3.50G	CW	8.0kØ	1.14	25†		TWT#	AM		CO	25 *
15	555H	3000M	1.25k†	2.00G-4.00G	60m	7.8kØ	1.8 Ø	30		TWT§	AM		CO	10
16	L5550	3000M	1250	2.80G-3.20G	20m	7.0k	1.5	65	40	TWT§	AM		CO	7.0
17	8128	3000M	1.26k	2.900G-3.100G	21m	37k	14	20		TWT	AM		WA	28
18	QKW750C	3000M	1.26k	2.800G-3.200G	21m	37k	14	20		TWT	AM		WA	28
19	570H	3000M	1500	2.00G-4.00G	40m	9.6k	2.5	30		TWT	AM	FF	CO	11
20	VTS5152A1	3000M	1500 †△	2.500G - 3.500G	.02	8000 Ø	1.8 Ø	35†		TWT§	AM		CO	7.5
21	F2120	3000M	1600	2.9G-3.1G	20m	7800	1.59	33.6†		TWT§	AM		CO	12.0
22	1160H	3000M	2500	2.90G-3.10G	2.5m	115 §⧄		70		TWT	AM	FF	CO	28
23	F2128	3000M	2800	2.9G-3.1G	.02	9500	2.1	36		TWT§	AM		CO	9.0
24	544H	3.000G	3.0k	2.900G-3.100G	10m	8.000k	1.8	30		TWT	AM		CO	8.0
25▼	L5569	3000M	3000	2.800G-3.200G	20m	8000	1.7	60		TWT§	AM		CO	6.0
26	JAN8742	3000M	4.0k†	2.900G-3.100G	30m	9.5k	2.1	37†		TWT§#	AM		WA	11 △
27	F2124	3000M	4000	2.9G-3.1G	.03	10000	2.0	39		TWT§	AM		CO	9.0
28	JAN8128	3000M	60000	2.900G - 3.100G	.021	40000	14	20		TWT#	AM		WA	33 △
29♦#	TOP1304	3000M	160k†	2.850G-3.150G	12.5m	46k	15 Ø	31†		TWT	AM		CO	
30♦#	TWS17	3050M	5.1m†	2.00G-4.10G		600	1.0m	35†	11*	TWT§	AML	BB	CO	
31♦#	TWS26	3050M	5.1m†	2.00G-4.10G				35†	11*	TWT§	AML	BB	CO	
32	JAN8880	3.075G	10m	2.100G-4.050G				10†	20*	TWT†			WA	4.5
33#	N1042M	3100M	.001	2.700G - 3.500G	CW	400	.15m	25	6.5	TWT	AML		CO	1.75 §
34#	W10/4G	3100M	15 *	2.600G - 3.600G	CW	3500	.05	35†	30*	TWT§	AM		WA	24
35	6861	3100M	.25M†	2.700G - 3.500G	CW	400	.15m	20†	7.0*	TWT*Ø	AML		CO	1.75
36	8232	3150M	5000	2.700G - 3.600G	.003	15000	4.0	25†		TWT§	AM	VT	CO	13.2
37	VTS5350A1	3.150G	5.0k†△	2.800G-3.500G	3.0m	14.5kØ	3.0 Ø	30†		TWT§	AM		CO	15
38	VTS5251A1	3150M	7000 †△	2.800G - 3.500G	.025	14000 Ø	3.5 Ø	30†		TWT#Ø	AM		CO	75 *
39	VTS4451P2	3170M	120m	2.050G-4.300G				30	17	TWT§	AML		CO	8.0
40#	W10/3E	3200M	.003 *	2.700G - 3.700G	CW	550	.60m	23	7.5*	TWT*	AML		WC	.137
41♦#	TOP1293	3200M	320 †	2.900G-3.500G	33m	5.0k	600m	43†		TWT§	AM		CO	
42	1195H	3.200G	1.0k	2.400G-4.000G	20m					TWT	AM			50
43	VTS5650A1	3200M	100k△	2.85G-3.35G	50m	40k	18	40		TWTØ	AM		NA	60 △
44♦#	F4024B	3225M	40m†	2.150G-4.300G	CW	650	10mØ	35†	10	TWT	AM		CO	2.20
45	WJ281	3250M	.0001 †	2.000G - 4.500G	CW	115 △⧄§		35†	8.0*	TWT†	AML		CO	17 △
46	1216H	3250M	10 †	3.00G-3.50G	CW	115 §*△			35*	TWT§	AM	MT	CO	2.5 △⧄
47♦	1177H05F	3250M	20	2.50G-4.00G	CW	120 §*△		30†	35*	TWT§	AM		CO	20 △
48	L5551	3250M	3000	3.00G-3.50G	20m	9.0k	2.0	36	40	TWT§	AM		CO	6.0
49	L5418	3250M	7000	3.000G-3.500G	20m	11000	3.3	60		TWT§	AM		CO	10
50	VTS4450P7	3300M		3.100G-3.500G				25	5.0	TWT§	AML		CO	11
51#	W9/3E	3300M	.0001 *	2.500G - 4.100G	CW	230	.40m	15	18*	TWT*	LIM		CO	
52#	N1045M	3300M	3.0m	2.500G-4.100G	CW	500	380u	28	8.0	TWT	AML		CO	1.75 §
53	VTS4407P4	3300M	3.0m	3.100G-3.500G				25	5.0	TWT§	AML		CO	15
54#	W9/2E	3300M	.01	2.500G - 4.100G	CW	450	.60m	42	10*	TWT*	AML		CO	.12
55	TWS6	3300M	.50	2.500G - 4.100G*	CW	2300	.015	20	30*	TWTØ	AM		CO	1.25 §
56	L5438	3300M	2.0k	3.100G-3.500G	60m	7.0k	1.2	30		TWT§	AM		CO	4.0
57	VA645G	3300M	9000	3.100G - 3.500G	.02	13500 Ø	3.3 Ø	33		TWTØ#	AM		CO	
58	VTS5252C2	3300M	10k†	3.10G-3.50G	10m	15500	4.0	33†		TWT#§	AM		CO	11
59	VTS5353A1	3300M	10k	3.100G-3.500G	.02	15.5k	3.1 Ø	40		TWT§	AM			25
60▼	L5590	3300M	11000	3.100G-3.500G	15m	15500	2.85	40		TWT§	AM		CO	12
61	VTS5751A1	3.300G	100k	3.100G-3.500G	.01	38k	17	40		TWT*#Ø	AM		WG	270 *
62	VTS5651A1	3300M	120k	3.100G-3.500G	.05	36k	13	48		TWT	AM			56 §
63	559H	3300M	130k	3.10G-3.50G	60m	43k	17	55		TWT§#	AM		WA	175 *
64	560H	3.300G	250k	3.100G-3.500G	20m	48000	21m	53		TWT§	AM			150
65	M5362	3375M	.01	2.300G - 4.450G	CW	425	.003	30	15	TWT§	AM		CO	
66	M5371	3375M	.02	2.300G - 4.450G	CW	425	.003	30	20	TWT§	AM		CO	
67	WJ375-4	3500M	.003 †	3.400G - 3.600G	CW	115 △⧄§		25†	4.5*	TWT†	AML		CO	19.5
68	STS276	3500M	1.5	3.350G - 3.650G	CW	980	.033	53	35	TWT*§	AM		CO	3.0
69	8111	3500M	1500	3.350G - 3.650G	.005	7500	1.5	32		TWT§	AM			
70	EM120	3500M	1500	2.350G - 3.650G	.02	6700	1.5	32		TWT§	AM		CO	
71▼#	LD4103	3600M	26	3.500G-3.620G	CW	3050	45m	49		TWT§	AM		WA	8.157 *
72	MA2089	3600M	300	2.40G-4.80G	CW	5.6k	400m	33		TWT	AM		CO	8.5
73▼	MA2089C	3600M	300 †	2.400G-4.800G	CW	5600	50m⧄	33†		TWT§	AM		CO	8.5 △
74▼	MA2089P	3600M	600 †	2.400G-4.800G	CW	5600	100m⧄	39†		TWT§	AM		CO	8.5 △
75	VA625L	3750M	150	3.500G - 4.000G	.10	3300	.325	43		TWT§	AM		CO	6.0
76#	YH1090	3800M	25	3.40G-4.20G	CW	2700	3.0m	38	24	TWT§	AM		WA	132m
77♦#	F4069	3850M	1.6 †	3.600G-4.100G	CW	2.4k	30mØ	12†		TWT	AM		CO	
78▼#	TOP851	3850M	1.6 †	3.600G-4.100G	CW	2.4k	30mØ	12†		TWT	AM		CO	
79#	VTG2630A1	3870M	20	3.54G-4.20G	CW	3000	45m	40	22	TWT	AM	FF	WA	13.2
80#	VYG2630A1	3870M	20	3.54G-4.20G	CW	3000	45m	40	22	TWT§	AM	FF	WA	13.2
81▼#	N1073Z	3875M	20	3.550G-4.200G	CW	2970	45m	38	23	TWT§	AM		WA	
82▼#	N10004	3875M	20	3.550G-4.200G	CW	4000	75m	41	23	TWT§	AM		WA	13 *
83	WJ381	3900M	.0055 †	2.600G - 5.200G	CW	115 §△⧄		25†	9.5*	TWT†	AML		CO	6.0
84	L2360	3900M	10m	2.60G-5.20G	CW	500	4.0m	35	12	TWT§	AM		CO	2.0
85	M5515	3.9G	10m	2.6G-5.2G	CW	450 §	1.5m	48	13	TWT§	AM		CO	
86	M5549	3900M	.01	2.600G - 5.200G	CW	450 §	.001	35	10	TWT§	AML		CO	
87	VTG4320P1	3900M	10m	2.600G-5.200G		115 ⧄△§		25	8.5	TWT§	AML		CO	5.0
88	VTG4320P2	3900M	10m	2.600G-5.200G		115 ⧄△§		40	9.5	TWT§	AML		CO	5.5
89	VTG4420P1	3900M	10m	2.600G-5.200G		115 ⧄△§		25	7.5	TWT§	AML		CO	7.5
90	WJ482	3900M	.01 †	2.600G - 5.200G	CW	115 △⧄§		25†	7.5*	TWT†	AML		CO	7.5
91	L2362	3900M	50m	2.60G-5.20G	CW	500	4.0m	50	15	TWT§	AM		CO	2.0
92	L2369	3900M	100m	2.60G-5.20G	CW	700	5.0m	30	12	TWT§	AM		CO	2.0
93	VTG4230P1	3.9G	100m	2.6G-5.2G	CW	§		38†	15*	TWT	AM		CO	9.0
94	VTG4321H1	3900M	100m	2.600G-5.200G		115 ⧄△§		35	15	TWT§	AML		CO	5.0
95	VTG4421H1	3900M	100m	2.600G-5.200G		115 ⧄△§		35	15	TWT§	AML		CO	8.0
96	M5610	3900M	.50	2.600G - 5.200G	CW	1300	.01	35	14	TWT§	AM		CO	
97	L2352	3900M	1.0	2.600G-5.200G	CW	1400	25m	35	17	TWT§	AM		CO	2.5
98	L2370	3900M	1.0	2.60G-5.20G	CW	1.3k	25m	35	16	TWT§	AM		CO	2.5
99	L2380	3900M	1.0	2.60G-5.20G	CW	1.3k	30m	30	27	TWT§	AM		CO	2.5
100▼	WJ3506	3900M	1.0 †	2.600G-5.200G	CW	1100	25m	30†	30*	TWT§*	AM		CO	1.75
101▼	L2387	3900M	2.0	2.600G-5.200G	CW	1350	25m	35		TWT§	AM		CO	3.0
102♦	VTG6025A1	3900M	2.0 †	2.600G-5.200G	CW	1300	60m	35†	30*	TWT§*	AM		CO	1.0
103♦	VTG6025A2	3900M	2.0 †	2.600G-5.200G	CW	1300	50m	30†	30*	TWT§*	AM		CO	1.0
104	VZG6025C1	3900M	2.0	2.600G-5.200G		115 ⧄§				TWT	AM			
105	VZG6025D1	3900M	2.0	2.600G-5.200G		28 Ø§				TWT	AM			
106#	W7/2D	3900M	2.5 *	3.600G - 4.200G	CW	3200	.018	13†		TWT	AM		WA	
107#	VTG2625A1	3.9G	3.7	3.6G-4.2G	CW	1.3k	20m	46	24	TWT§	AM		WA	6.6 *
108	275H	3900M	5	3.70G-4.20G	CW	1330		55		TWT	AM	FF	CO	1.38
109▼	WJ3801	3900M	5.0	2.600G-5.200G	CW	1250	40mØ	38	20	TWT§	AM		CO	3.5
110#	4W70	3900M	5.5	3.600G-4.200G	CW	2000	21m	44	24	TWT§	AM		WA	5.5

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY
(3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	LD4007	3900M	6.1	3600M-4200M	CW	2000	26m	47	23	TWT§	AM		CO	2.5
2#	TL6	3900M	8.0	3.600G-4.200G	CW	1450	30mØ	30†	36	TWTØ	AM		WA	17.6
3#	W7/3G	3900M	10	3.600G - 4.200G	CW	3000	.043	25†	27	TWT†	AM		WA	
4#	LD597A	3900M	14	3.600G - 4.200G	CW	3000	.036	33	25	TWT§	AM		WA	
5#	YH1160	3900M	14	3.600G-4.200G	CW	2100	35m	36	25	TWT§	AM		CO	1.76
6#	4W81	3900M	15	3.600G - 4.200G	CW	3000	.038	37	25	TWT§	AM		WA	
7#	RW42	3900M	16	3.60G-4.20G	CW	1600	75m	39	20	TWT§	AM		WA	20 *
8#	N1086	3900M	20	3.60G-4.20G	CW	3500	40m	40	22	TWT§	AM		CO	4.5
9#	VTG2605A1	3900M	20	3.6G-4.2G	CW	3300	45m	40	26*	TWT§	AM		WA	13.2 *
10#	VTG2605C4	3900M	20	3.6G-4.2G	CW	3300	45m	40	25	TWT§	AM		WA	13.2 *
11#	LD4034	3900M	23	3600M-4200M	CW	3000	47m	46	22	TWT§	AM		WA	8.2
12	L5486	3900M	30	2.600G-5.200G	CW	1900	110m	46		TWT§	AM		CO	800m
13#	W7/5GA	3900M	30 *	3.600G - 4.200G	CW	3000	.10	41†	31*	TWT§	AM		WA	20
14#	W7-6GZ	3.900G	37 *	3.600G-4.200G	CW	3.2k	100m	40†	28*	TWT§	AM		WA	24
15	VTG6230A1	3900M	200	2.600G-5.200G		4.4k	420m	33		TWT§	AM		CO	8.0
16▼	WJ3633-1	3900M	250	2.600G-5.200G	CW	5800	450mØ	35	40	TWT§*	AM		CO	10
17▼	WJ3633-2	3900M	250	2.600G-5.200G	CW	5800	450mØ	35	40	TWT§	AM		CO	10
18▼	WJ3633#1	3900M	250	2.600G-5.200G	CW	5800	450mØ	35	40	TWT§*	AM		CO	10
19▼	WJ3633#2	3900M	500	2.600G-5.200G	250m	5800	750mØ	45	40	TWT§*	AM		CO	10
20	WJ269-58	3950M	.0001 †	3.700G - 4.200G	CW	115 Δ▨§		25†	5.0*	TWT†	AML		CO	17
21	VTS4413H1	3950M	10m	3.700G-4.200G				40	8.0	TWT§	AML		CO	7.5
22	WJ481	3950M	.01 †	3.700G - 4.200G	CW	115 §Δ▨		28†	6.5*	TWT	AML		CO	7.5 Δ
23	276H	3950M	500m	3.70G-4.20G	CW	1050 Ø	4.8mØ	35	18.7*	TWT§	AM		CO	1.12
24▼	272H	3950M	1.7	3.700G-4.200G	CW	1630	9.0mØ	35	19.5	TWT§	AM		CO	1.31
25	L5121	3950M	2.0 †	2.600G - 5.300G	CW	1250	.05	60		TWT*§	AM		CO	1.05
26▼	296H	3950M	5.0 †	3.700G-4.200G	CW	1280	21mØ	55		TWT§	AM		CO	1.37
27▼	277H	3950M	5.5	3.700G-4.200G	CW	1350	25mØ	55		TWT§	AM		CO	1.43
28#	LD927	3950M	5.5	3.700G - 4.200G	CW	2000	.020	44	25	TWT§	AM		WA	6.6
29▼	271H	3950M	6.0	3.700G-4.200G	CW	1550	26mØ	57		TWT§	AM		CO	1.75
30#	VTG2627A1	3.950G	6.0	3.700G-4.200G	CW	1.850k	27m	40	22	TWT§	AM		CO	.96
31#	LD916	3950M	12	3.700G - 4.200G	CW	3000	.038	34	25	TWT§	AM		WA	10.4
32#	W7/6GA	3950M	30 *	3.700G - 4.200G	CW	3000	.10	39†	28*	TWT§	AM		WA	20
33	L5320	3975M	1.0k	2.650G-5.300G	20m	9000	2.3	50		TWT§	AM		CO	7.5
34	VTG5120A1	3975M	1200 †Δ	2.650G - 5.300G	.02	8400 Ø	1.8 Ø	30†		TWT§	AM		CO	8.0
35	233H	4.0G	100m	3.0G-5.0G	CW	600	2.5m	47		TWT§	AM		CO	820mΔ
36▼#	4W77	4000M	2.5	3.550G-4.250G	CW	3050	14m	25		TWT§	AM		WA	8.377 *
37♦#	F4066	4000M	6.3 †	3.800G-4.200G	CW	1.6k	45mØ	25†	30	TWT†	AM		CO	661m
38	235H	4000M	10	3.000G - 5.000G	CW	1800	.04	43		TWT§	AM		CO	1.2 Δ
39	L5116	4000M	1000	2.500G - 5.000G	.02	9000	2.0	35	35	TWT	AM		CO	6.0 Δ
40	VTS4413P9	4050M	7.95m	3.700G-4.200G		115 §Δ▨		28	6.5	TWT§	AML		CO	7.5
41	VTS4413H9	4050M	10m	3.700G-4.200G				28	6.5	TWT§	AML		CO	7.5
42	VTS4413H2	4050M	120m	3.700G-4.200G				40	9.0	TWT§	AML		CO	7.5
43#	4W76A	4050M	10	3.600G - 4.300G	CW	3450	.037	30	25	TWT§	AM		WA	
44	MA2074#1	4050M	300 †	2.70G-5.40G	CW	5.4kØ	400m	30†		TWT§*	AM		CO	8.5
45	MA2067	4050M	450 †	2.70G-5.40G	CW	5.5kØ	440m	30†		TWT§*	AM		CO	8.5
46	MA2074#2	4050M	600 †	2.70G-5.40G	500m	5.4kØ	525m	33†		TWT§*	AM		CO	8.5
47♦	1224H	4150M	200m	4.10G-4.20G	CW			51		TWT	AM	FF	CO	2.7
48♦	261H	4150M	6.0	3.50G-4.80G	CW	1600	26mØ	57		TWT§	AM		CO	1.56
49#	N10002	4.275G	16	3.55G-5.0G	CW	4.0k	50m	41	23	TWT	AM		WA	7.0
50#	N1033	4300M	7.0	3.800G - 4.800G	CW	2500	.03	37		TWT	AM		WA	.75 §
51#	W7/4G	4300M	12 *	3.600G - 5.000G	CW	3500	.05	35†	27	TWT*	AM		WA	.27
52#	N1073	4.300G	20	3.600G-5.000G	CW	4.0k	50m	42	23	TWT§	AM		WA	500m§
53#	W7/5GC	4300M	25 *	3.700G - 5.000G	CW	3000	.10	37†	31*	TWT§	AM		WA	20
54#	W7-6GC	4.350G	26 *	3.700G-5.000G	CW	3.2k	100m	38†	28*	TWT§	AM		WA	24
55	STC52151	4.600G	300	4.200G-5.000G	CW	7.200k	350m	45	40	TWT§	AM		WA	7.0
56	JAN8551	4700M		4.400G - 5.000G	CW	1800	.025	4.5*		TWT§	AM		CO	5.25 Δ
57	VTC4414S2	4700M	10m	4.400G-5.000G				25	6.5	TWT§	AML		CO	7.0
58	VTC6061B1	4700M	2.0	4.400G-5.000G		1.5k	18m	35		TWT§	AM		CO	1.0
59	VZC6061C1	4700M	2.0	4.400G-5.000G		115 ▨§				TWT	AM			
60	VZC6061D1	4700M	2.0	4.400G-5.000G		28 Ø§				TWT	AM			
61#	YH1050	4700M	2.0	4.400G-5.000G	CW	1200	20mØ	30	25	TWT†	AM		WA	198m
62	JANDOD009	4700M	4.5 *	4.400G-5.000G	CW	1.7k	2.5m		28*	TWT§	AM		CO	3.0 Δ
63#	N1056	4700M	20 *	4.400G - 5.000G	CW	3000	.047	40	25	TWT§	AM		WA	.75 §
64#	VTG2630A5	4700M	20	4.400G-5.000G	CW	2000	45m	40	26	TWT§	AM		WA	13.2
65#	W7/5GB	4700M	30 *	4.400G - 5.000G	CW	3000	.10	35†	31*	TWT§	AM		WA	25
66#	5W70	4700M	35	4.400G-5.000G	CW	3.8k	58m	39	21	TWT§	AM		WG	9.4
67	M5539	4700M	200	4.400G - 5.000G	CW	4300	.36	45		TWT§	AM		CO	
68	VZC6963C1	4700M	200	4.400G-5.000G		115 ▨§				TWT	AM			
69	STC52162	4700M	300 †	4400M-5000M	CW	7.2k	350m	40†		TWT§	AM		WA	7.5 Δ
70#	YH1181	4700M	1.1k†	4.400G-5.000G	CW	13500	600mØ	36		TWT§	AM		WA	44.1
71	636H	4700M	10000	4.40G-5.00G	CW	13500		11		TWTØ	AM		WA	
72▼	L5589	4750M	15	2.500G-7.000G	CW	1900	120m	40		TWT§	AM		CO	1.0
73	STC5215	4800M	250	4.400G - 5.200G	CW	6800	.32	45		TWT	AM	VT	CO	6.0
74	VTC4460P1	4820M	5.0m	4.400G-5.250G				25	5.0	TWT§	AML		CO	11
75	STC52152	4850M	250	3.20G-6.50G	CW	7.0k	350m	36†		TWT§	AM		CO	7.0
76	M5709	4900M	20 †	2.60G-5.20G	CW	2100	130m	35†	35*	TWT§	AM		CO	3.0 Δ
77	M5508K	4900M	100 †	2.60G-5.20G	CW	4000	330m	30†	35*	TWT§	AM		CO	7.5 Δ
78	M5648K	4900M	200 †	2.60G-5.20G	CW	4700	460m	30†	35*	TWT§	AM		CO	7.5 Δ
79▼	L5579	4950M	1000	3.700G-7.000G	20m	10900	1.6	52		TWT§	AM		CO	5.0
80	WJ343	5000M	.003	2.000G - 8.000G	CW	115 Δ▨§		28	7.0	TWT†	AML		CO	17 Δ
81♦	262H	5000M	1.5	4.00G-6.00G	CW	1630	9.0mØ	35	18	TWT§	AM		CO	1.37
82#	W7-6GL	5000M	27 *	4.750G-5.750G	CW	3000	100m	40†	28*	TWT§	AM		WA	20
83▼	WJ3635	5000M	1250	2.500G-7.500G	100m	7500	1.3 Ø	33	40	TWT§*	AM		CO	11
84	L5134	5100M	10 †	3.700G - 6.500G	CW	2900	.08	30†	33	TWT§*	AM		CO	2.05
85▼#	N10007	5100M	130	4.400G-5.800G	100m	5400	220m	40		TWT§	AM		CO	2.0
86#	N1094	5125M	250 †	5.000G-5.250G	50m	5.4k	350m	40†		TWT	AM		CO	2.5 Δ
87	VTC5360A2	5200M	1.0k	5.000G-5.400G	.01	8.5k	1.0 Ø	40		TWT§	AM			5.0
88	VTC5360H1	5400M	1.0k†	5.200G-5.600G	30m	9000	900m	60		TWT*§	AM		CO	6.0
89♦#	TH9116	5450M	6.0k†	5.100G-5.800G	3.0m	16k	4.0m	43†		TWTØ	AM		CO	
90	M5634	5500M	.01 †	4.000G - 7.000G	CW	810	1.5m	40†	10*	TWT§	AML		CO	4.0
91#	W6ML/1C	5.5G	20m*	4.1G-7.0G	CW	1.0k	600u	38*		TWT§	LIM		CO	8.0
92♦#	F4025B	5500M	30m†	4.000G-7.000G	CW	850	6.0mØ	35†	11	TWT	AM		CO	2.20
93♦#	TH9128	5500M	30 †	5.000G-6.000G	3.0m	3.3k	130m	33†		TWT†	AM		CO	
94	VTC5160A1	5500M	100 †Δ	4.500G - 6.500G	.06	5000 Ø	.35 Ø	36†		TWT§	AM		CO	5.0
95	STC5213	5500M	200 †	4000M-7000M	CW	7.0k	330m	35†		TWT§	AM		WC	6.0 Δ
96	STC52163	5.500G	300	4.000G-7.000G	500m	7.200k	350m	40	40	TWT§	AM		CO	6.0
97	STC124	5500M	1125 †	5.250G - 5.750G	.003	13000	3.7			TWT	AM		CO	4.75 §
98	QKW1753	5500M	1200	5.25G-5.75G	50m	7800	850m	73		TWT	AM		CO	4.0
99	VTC5264A2	5500M	1.5k	5.00G-6.00G	7.5m	7.0k	1.3	35		TWT§	AM		CO	1.5
100#	N1016M	5550M	.0035	4.100G - 7.000G	CW	650	.42m	37	9.5	TWT	AML		CO	1.25 §
101	WJ346	5550M	20000 †	5.400G - 5.700G	.005	27000	5.5	50†		TWT§*	AM		CO	18.5
102	VTC5760A1	5575M	50000	5400M-5750M	20M	32000	8.0	48		TWT§#	AM		WA	40
103	STC5214	5.6G	250	5.2G-6.0G	CW	6.8k	320m	45		TWT	AM	VT	CO	6.0
104	634H	5600M	75k	5.35G-5.85G	40m	38k	11.5	46		TWT*#	AM		WA	55 *
105#	PT1020	5.600G	4.0M	5.350G-5.850G	1.5m	135k	100	33		TWTØ#	AM		WA	530 *
106	F2106	5.625G	200	5.400G-5.900G	10m	6.500k	750m	33†		TWT§*	AM		CO	3.0
107	635H	5625M	200k	5.40G-5.85G	40m	50k	17	48		TWT*#	AM		WA	55 *
108	VTC4460P7	5650M		5.400G-5.900G				25	5.0	TWT§	AML		CO	11
109	VTC4414P3	5650M	17m	5.40G-5.90G				25	6.0	TWT§	AM		CO	6.5
110	M2203E	5650M	.05 †	5.400G - 5.900G	CW	900	.2.0m	35†		TWT†	AM			

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY
(3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	JAN8364	5650M	.20	5.400G - 5.900G		1350	.015		35*	TWT*§	AM	MT	CO	3.0 △
2	STC279	5650M	.25	5.400G - 5.900G	CW	1175	.007	33	35	TWT§	AM		CO	3.0
3	JAN8362	5650M	50	5.400G - 5.900G	.012	5750	.225			TWT*§	AM	MT	CO	7.0 △
4	EM1102B	5650M	50 †	5.400G - 5.900G		3300	.25	51		TWT§*	AM		CO	5.0
5	STC278	5650M	50	5.400G - 5.900G	.01	5400	.20	37	45	TWT*§	AM		CO	5.0
6	F2576	5650M	200	5.400G - 5.900G	.003	6500	.45	50†		TWT§*	AM		CO	
7	F2112	5650M	750 †	5.4G-5.9G	20m	7800	800m	54†		TWT§	AM		CO	4.0
8	F2118	5650M	750 †	5.4G-5.9G	80m	8000	800m	54†		TWT§	AM		CO	4.0
9	VTC5261H1	5650M	1000 †△	5.400G - 5.900G	.01	7000 ∅	1.1 ∅	60†		TWT§	AM		CO	4.0
10	VTC5261J1	5650M	1.0k	5.400G-5.900G	.08	7.0k	1.0 ∅	54		TWT§	AM			5.0
11	VTC5360A1	5650M	1000 †△	5.400G - 5.900G	.01	8000 ∅	1.0 ∅	40†		TWT§	AM		CO	5.0
12	STC152	5650M	2000	5.400G - 5.900G	.002	15200	4.5	28		TWT∅	AM		CO	5.0 §
13	VTC5361A1	5650M	4000 †△	5.400G - 5.900G	.005	13000 ∅	2.2 ∅	36†		TWT§	AM		CO	7.0
14	L5420	5650M	5000	5.400G-5.900G	20m	12000	2.3	60		TWT§	AM		CO	8.0
15	VTC5260H1	5650M	5000 †△	5.400G - 5.900G	.002	15000 ∅	3.3 ∅	51†		TWT§	AM		CO	13
16	VTC5262B1	5650M	5.0k	5.400G-5.900G	4.0m	14.5k	3.0 ∅	45		TWT§	AM			10
17	VTC5262A1	5650M	8.0k	5.400G-5.900G	2.0m	14.5k	3.0 ∅	47		TWT§	AM			10
18	WJ228	5650M	14000	5.400G - 5.900G	.028	24000	4.8	44	50	TWT*§	AM		WC	14
19	621H	5650M	75k	5.40G-5.90G	25m	38k	10.5	53		TWT§#	AM		WA	40 *
20	622H	5650M	75k†	5.40G-5.90G	25m	38k∅	10 ∅	50		TWT§	AM		WA	40 *
21	L2377	5700M	10m	3.90G-7.50G	CW	800	4.0m	36	20	TWT§	AM		CO	3.0
22	STC5210	5700M	200	4.00G-7.40G	CW	7.0k	340m	33†	40	TWT§	AM		CO	7.0
23	VTC5660A1	5.7G	75k	5.4G-5.9G	50m	38k	12	40		TWT	AM		WA	
24	JAN8881	5.725G	10m	3.950G-7.500G				10†	20*	TWT†			WA	4.5
25#	W6MT-2A	5750M	6.0m†	4.000G-7.500G	CW	625	6.0m	33∅	15*	TWT†	AM		CO	11.5
26	WJ271-2	5825M	.0003 †	4.300G - 7.350G	CW	115 △▨§		25†	6.0*	TWT†	AML		CO	17 △
27	M2112-O	5825M	.005	4.300G - 7.350G	CW	850	.002	30	11	TWT*§	AML		CO	
28	VTC4402P2	5.825G	10m	4.3G-7.35G	CW	§		30†	7.0*	TWT§	AM		CO	16.5
29▼#	LD4035A	5900M	22	5.670G-6.170G	CW	2850	45m	45		TWT§	AM		WA	5.511
30	VTC4451H1	6000M		4.000G-8.000G		115 ▨△§		35	15	TWT§	AML		CO	8.0
31	VTC4461P1	6000M		4.000G-8.000G				20	15	TWT§	AML		CO	8.0
32▼	WJ3614-2	6000M		4.000G-8.000G	CW	6300	450m∅	38	40	TWT§*	AM		CO	10
33	WJ271	6000M	.0003 †	4.000G - 8.000G	CW	115 △▨§		25†	6.5*	TWT†	AML		CO	17 △
34	WJ286	6000M	.0003 †	4.000G - 8.000G	CW	115 △▨§		35†	8.0*	TWT†	AML		CO	17 △
35	WJ376	6000M	.003 †	4.000G - 8.000G	CW	115 △▨§		25†	7.0*	TWT†	AML		CO	17
36	7393	6000M	.005	4.000G - 8.000G	CW	550	.001	25†	10*	TWT	AML		CO	11.5
37	M2112I	6000M	.005	4.000G - 8.000G	CW	900	.002	30	11	TWT*§	AML		CO	
38	VTC4402P1	6.0G	5.0m†	4.0G-8.0G	CW	§		25†	7.5*	TWT§	AML		CO	16.5
39	WJ296	6000M	.005 †	4.000G - 8.000G	CW	115 △▨§		25†	9.0*	TWT†	AML		CO	4.5 △
40♦#	TWC27	6000M	5.1m†	4.000G-8.000G				35†	11*	TWT	AM	BB	CO	
41	WJ296-5	6000M	.0055 †	4.000G - 8.000G	CW	115 §△▨		28†	9.0*	TWT†	AML		CO	6.0 △
42	WJ459	6000M	.0055 †	4.000G - 8.000G	CW	28 §∅		25†	9.0*	TWT§	AML		CO	6.0 △
43	L2303	6000M	10m	4.000G-8.000G				30	24	TWT			CO	
44	L2328	6000M	10m	4.000G-8.000G				30		TWT§			CO	
45	L5015	6000M	.01 †	4.000G - 8.000G	CW	750	.005	13†		TWT§	AM		CO	.044
46	M2112H	6000M	.01	4.000G - 8.000G	CW	900	.002	30	15	TWT*§	AML		CO	
47	M5354	6000M	.01	4.000G - 8.000G	CW	810	.003	30	15	TWT§	AM		CO	
48	M5389	6000M	.01	4.000G - 8.000G	CW	810	.003	30	20	TWT§	AM		CO	
49	M5518	6000M	.01	4.000G - 8.000G	CW	810 §	.001	35	10	TWT§	AML		CO	
50#	TWC18	6000M	10m	4.00G-8.00G		950	800u	40	11	TWT§			CO	
51	VTC4414P1	6000M	10m	4.00G-8.00G				25	7.5	TWT§	AM		CO	7.0
52	WJ331-1	6000M	.01 †	4.000G - 8.000G	CW	115 △▨§		35†	12*	TWT†	AML		CO	17 △
53	WJ423	6000M	.01 †	4.000G - 8.000G	CW	115 §△▨		25†	7.5*	TWT§	AML		CO	6.5 △
54	WJ463	6000M	.01 †	4.000G - 8.000G	CW	115 §△▨		40†	10*	TWT§	AML		CO	4.0 △
55	VTC4414P2	6000M	15m	4.00G-8.00G				35	9.0	TWT§	AM		CO	7.0
56	VTC4360P1	6000M	16m	4.00G-8.00G		115 §△▨		30	7.8	TWT§	AML		CO	5.0
57	VTC4360P2	6000M	16m	4.00G-8.00G		115 §△▨		38	7.8	TWT§	AML		CO	5.0
58	WJ485	6000M	16m	4.000G-8.000G	CW	125		40	13	TWT§	LIM		CS	3.75 △
59	M5369	6000M	.02	4.000G - 8.000G	CW	810	.003	30	20	TWT§	AM		CO	
60	M9152	6000M	20m†	4.00G-8.00G	CW	115 §△▨		40†	11*	TWT§	AM		CO	4.0 △
61	M9152C	6000M	20m†	4.00G-8.00G	CW	115 §△▨		35†	11*	TWT§	AM		CO	4.0 △
62	L2357	6000M	40m	4.0G-8.0G	CW	900	3.0	40	15	TWT	AM		CO	2.0
63	L5218	6.000G	40m	4.000G-8.000G	CW	785	5.0m	33		TWT§	AM		CO	1.5
64	MA2045	6000M	100m*	4.00G-8.00G	100m	1.3k∅	10m			TWT§	AM		CO	630m
65	VTC4361H1	6000M	100m	4.000G-8.000G		115 ▨△§		35	15	TWT§	AML		CO	5.0
66	WJ476	6000M	100m	4.000G-8.000G	CW	125	220m∅	30	11	TWT†	AML		CS	7.0 △
67	WJ3004	6.0G	100m†	4.0G-8.0G	CW	115 §△▨		30†	10*	TWT	AML		CO	18 △
68	EM1010	6000M	1.0 †	4.000G - 8.000G	CW	2600	.03	60		TWT§	AM		CO	4.5 *
69	L2335	6000M	1.0	4.000G-8.000G	CW	2200	30m	33	18	TWT§	AM		CO	2.5
70	L2344	6000M	1.0	4.000G-8.000G	CW	2350	35m	33	30	TWT§	AM		CO	2.5
71	L2381	6000M	1.0	4.00G-8.00G	CW	2.0k	20m	30	30	TWT§	AM		CO	3.0
72	L5071	6000M	1.0 †	4.000G - 8.000G	CW	1500	.035	60†		TWT*§	AM		CO	1.05
73	M4278	6000M	1.0 †	4.000G - 8.000G	CW	2000	.015	30†		TWT†	AM		CO	
74	VTC6060A1	6000M	1.0 †	4.000G - 8.000G	CW	1600	.02	30†		TWT§	AM		CO	1.0
75▼	WJ3502	6000M	1.0 †	4.000G-8.000G	CW	2000	25m	30†	30*	TWT§*	AM		CO	1.75
76	EM1059	6000M	2.0	4.000G - 8.000G	CW	2450	.03	35		TWT§				
77	L2348	6000M	2.0	4.000G-8.000G	CW	2350	30m	33	30	TWT§	AM		CO	2.5
78	L5009	6000M	2.0 †	4.000G - 8.000G	CW	2000	.04	50†		TWT*§	AM		CO	1.05
79	L5137	6000M	2.0 †	4.000G - 8.000G	CW	2000	.04	30†		TWT*§	AM		CO	1.5
80	M5377	6000M	2.0	4.000G - 8.000G	CW	2200	.025	30	30	TWT§	AM		CO	
81	M5650	6000M	2.0 †	4.000G - 8.000G	CW	2400	.30	40†	15*	TWT§	AM		CO	4.5
82	VTC6060H1	6000M	2.0	2.000G-8.000G		1.5k	20m	60		TWT§	AM		CO	1.25
83	VZC6060C1	6000M	2.0	4.000G-8.000G		115 ▨§				TWT	AM			
84	VZC6060D1	6000M	2.0	4.000G-8.000G		28 ∅§				TWT	AM			
85	EM1015	6000M	3.0 †	4.000G - 8.000G	CW	2500	.03	60	30	TWT†	AM		CO	4.5 *
86	WJ3802	6000M	4.0 †	4.00G-8.00G	CW	3000	40m	42	20	TWT§*			CO	2.5 △
87♦#	TOP1203	6000M	7.0 †	4.000G-8.000G	CW	2.7k	25m∅	35†	28	TWT	AM		CO	1.32
88	568H	6000M	10	4.00G-8.00G	CW		60m	30		TWT	AM	FF	CO	7.0
89	648HD	6000M	10 †	4.00G-8.00G	CW	2800	65m	30†	35*	TWT§	AM		CO	3.0
90♦	1177H02F	6000M	10	4.00G-8.00G	CW	120 §*△		30†	35*	TWT§	AM		CO	20 △
91	L5011	6000M	10 †	4.000G - 8.000G	CW	2700	.07	33†		TWT*§	AM		CO	2.05
92▼	L5575	6000M	10	4.000G-8.000G	CW	3200	80m	35		TWT§	AM		CO	3.0
93	VTC6069F1	6000M	10 †	4.000G - 8.000G	CW	2900	.075	42†	27	TWT§	SEA		CO	3.0
94	VZC6960E2	6000M	10	4.000G-8.000G		115 △§				TWT	AM			
95	640H	6000M	20	4.00G-8.00G	CW		60m	30		TWT	AM	FF	CO	3.0
96	1234H	6000M	20 †	4.00G-8.00G	CW	115 §▨		38†	35*	TWT§	AM		CO	18.5 ▨
97	1277H02F	6000M	20	4.00G-8.00G	CW	120 §∅		30†	35*	TWT§	AM		WA	20 △▨
98	L5083	6000M	20 †	4.000G - 8.000G	CW			40†		TWT	AM			4.0 △
99	L5559	6000M	20	4.00G-8.00G	CW	3.4k	85m	35	35	TWT§	AM		CO	3.0
100	VTC6160A1	6000M	20 †	4.000G - 8.000G	CW	2500	.01	35†		TWT§	AM		CO	2.75
101	VTC6160B1	6000M	20 †	4.000G - 8.000G	CW	2500	.01	35†		TWT§	AM		CO	2.75
102	VTC6160H1	6000M	20 †	4.000G - 8.000G	CW	2500	.01	54†		TWT§	AM		CO	3.0
103	VTC6160J1	6000M	20 †	4.000G - 8.000G	CW	2500	.10	54†	35	TWT§	AM		CO	3.0
104	VZC6961E1	6000M	20	4.000G-8.000G		115 △§				TWT	AM			
105	WJ3860	6000M	25 †	4.000G-8.000G	CW	4700	150m	25†		TWT*	AM		CS	2.2 △
106	WJ3861	6000M	50 †	4.000G-8.000G	CW	4700	210m	30†		TWT*	AM		CS	2.2 △
107	M5313	6000M	100 †	4.000G - 8.000G	CW	4400	.28	30†	32*	TWT§	AM		CO	
108	M5313K	6000M	100 †	4.00G-8.00G	CW	6600	200m	30†	35*	TWT§	AM		CO	7.5 △
109	M5479K	6000M	100 †	4.00G-8.00G	CW	6600	200m	30†	35*	TWT§	AM		CO	7.5 △
110	VTC6260A1	6000M	100 †	4.000G - 8.000G	CW	4500	.24	30†	35	TWT§	AM			5.0

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	VTC6260C1	6000M	100 †	4.000G - 8.000G	CW	4500	.24	30†	35	TWT§	AM			5.0
2	VTC6260H1	6000M	100 †	4.000G - 8.000G	CW	4500	.24	50†	40	TWT§	AM			5.5
3	VTC6260J1	6000M	100 †	4.000G - 8.000G	CW	4500	.24	50†	40	TWT§	AM			5.5
4	VTG6260A1	6000M	100	4.000G-8.000G		4.5k	250m	30		TWT§	AM		CO	5.0
5	VZC6962E1	6000M	100	4.000G-8.000G		115 Δ§				TWT	AM			
6▼	WJ3862	6000M	100	4.000G-8.000G	200m	4850	210mØ	42	35	TWT§*	AM		CO	2.2
7▼	WJ3863	6000M	125	4.500G-7.500G	200m	4850	230mØ	44	35	TWT§*	AM		CO	2.2
8	F2098	6000M	200	4.000G - 8.000G	.005	6500	.60	45†		TWT§*	AM		CO	
9	M5392K	6000M	200 †	4.00G-8.00G	CW	8000	300m	30†	35*	TWT§	AM		CO	7.5 Δ
10	M5462K	6000M	200 †	4.00G-8.00G	CW	8000	300m	30†	35*	TWT§	AM		CO	7.5 Δ
11	STC54402	6000M	200	4.00G-8.00GHz	CW	11k	500m	36		TWT§*	AM		CO	9.0
12▼#	TH3533	6000M	200 †	4.000G-8.000G	CW	5900	300m	30†		TWT	AM		CO	6
13♦#	TOP1432	6000M	200 †	4.000G-8.000G	CW	5.4k	270 Ø	30†	30	TWT	AM		CO	5.52
14	VTC6264C6	6000M	200	4.000G-8.000G		8.5k	280m	35		TWT§	AM		CO	6.0
15	STC5216	6.0G	250	5.925G-6.425G	CW	7.0k	340m	42	40	TWT			WC	6.0
16▼	WJ3614-1	6000M	250	4.000G-8.000G	CW	6300	450mØ	38	40	TWT§*	AM		CO	10
17▼	WJ468-2	6000M	750	4.000G-8.000G	CW	9000	1.25 Ø	33	40	TWT§	AM		CO	160
18	656H	6000M	1.0k†	4.00G-8.00G	CW	8500	1.3 Ø	27†		TWT#	AM		CO	20 *
19	F2099	6000M	1000	4.0G-8.0G	.04	9800	1.8	29		TWT§*	AM		CO	10.0
20	VTC5161A1	6000M	1.0k	4.000G-8.000G	.02	10.5k	1.5 Ø	40		TWT*§	AM			6.0
21	VTC5170A1	6000M	1000 †Δ	4.000G - 8.000G	.02	8500 Ø	1.0 Ø	30†		TWT§	AM		CO	7.5
22	618H	6.000G	1.2k	4.000G-8.000G	5.0	9.750k	1.8	30		TWT§	AM			10
23♦	641H	6000M	1250 †	4.000G-8.000G	100m	9750	1.8 Ø	30		TWT§*	AM		CO	10
24	639H	6.000G	2.5k	4.000G-8.000G	22m	10k	2.5	30		TWT§	AM			10
25	WJ407	6.000G	5.5k†	4.000G-8.000G	CW	115 Δ⍁		25†	9.0*	TWT†	AML		CO	
26	L5123	6.000G	1.000G	4.000G-8.000G	50m	11k	2.2	35		TWT§	AM		CO	7.5
27	L5263	6.000G	1.000G	4.000G-8.000G	20m	12k	2.0	35		TWT§	AM		CO	7.0
28	L5284	6.000G	1.000G	4.000G-8.000G	10m	12k	2.0	50		TWT§	AM		CO	7.5
29#	6W401	6100M	14	5.850G - 6.450G	CW	3700	.05	40		TWT§	AM		WA	
30#	YH1202	6115M	11	5.80G-6.425G		2650	42m	39	25	TWT	AM		CO	1.76
31	279H	6125M	100	5.90G-6.40G	CW	3600	85m	33		TWT	AM	FF	CO	3.0
32	W5/2GD	6140M	23 *	5.850G - 6.425G	CW	3700	.055	42	28	TWT§	AM		WA	18 *
33	VTC4414A4	6150M	100m	5.900G-6.400G				35	10	TWT§	AML		CO	8.0
34▼#	TH3540	6150M	16 †	5.900G-6.400G	CW	3850	52m	32†		TWT§	AM		CO	15.5
35#	6W411	6150M	18	5.800G - 6.500G	CW	2000	.047	40		TWT§	AM		WA	
36#	6W411V	6150M	18	5.800G-6.500G	CW	2000	47m	40		TWT§	AM		WA	
37♦	1210H	6150M	18	5.90G-6.40G	CW			36		TWT	AM	FF	CO	15
38#	6W52	6150M	20	5.925G-6.425G	CW	3600	40m	36	26	TWT§	AM		WA	
39#	LD4166	6150M	27	5.925G-6.425G	CW	3800	45m	40	23	TWT§	AM		WA	
40♦	1222H	6150M	100	5.90G-6.40G	CW			33		TWT	AM	FF	CO	28
41	VTC6360E1	6150M	225 †	5.900G - 6.400G	CW	4300	.40	33†	35	TWT§	AM			8.0
42	VTC6360A1	6150M	300 †	5.900G - 6.400G	CW	4700	.42	33†	35	TWT§	AM			8.0
43	662H	6150M	400	5.90G-6.40G	CW	8500	250m	35		TWT§	AM		WA	6.0
44▼	WJ440-8	6150M	400	5.900G-6.400G	CW	8300	550mØ	45	35	TWT§	AM		CO	20
45	644H	6.150G	750	5.900G-6.400G	CW	11k	500m	50		TWT§	AM			35
46#	LD4070	6150M	3000	5925M-6425M	CW	13500	1.8	33		TWTØ	AM		WA	45
47	VTC6660A1	6150M	8000 †	5.900G - 6.400G	CW	16500	2.65	34†	40	TWTØ#	AM			30
48♦#	TOP1487	6175M	1.5 †	5.925G-6.425G	CW	10.5k	750 Ø	40†		TWTØ	AM		CO	66.13
49#	LD4128	6175M	2.0	5.925G-6.425G	CW	21 Ø	15m	43	25	TWT§	AM		WA	15.4
50#	VTJ2628A1	6175M	3.0	5.925G-6.425G	CW	1200	20m	43		TWT§	AM		WA	6.0
51#	6W70	6175M	4.0	5.925G-6.425G	CW	2000	17m	43	24	TWT§	AM		WA	5.5
52#	LD4010	6175M	4.0	5925M-6425M	CW	2000	17	43	24	TWT§	AM	VT	WA	5.5
53#	LD4116A	6175M	4.0	5.925G-6.425G	CW	21 §Ø		40	24	TWT§	AM		CO	8.5
54♦#	TH3507	6175M	4.0 †	5.925G-6.425G	CW	3.0k	18mØ	27†	26	TWT	AM		CO	1.43
55▼#	LD4001	6175M	4.4	5.925G-6.425G	CW	1800	16m	50		TWT§	AM		WA	5.511
56#	LD958	6175M	7.8	5925M-6425M	CW	2000	26m	45	23	TWT§	AM		CO	2.2
57#	N1070	6.175G	10	5.925G-6.425G	CW	2.4k	40m	35	27	TWT§	AM		WA	500m§
58#	TWC5	6.175G	10	5.925G-6.425G	CW	3500	45m	40	30	TWT§	AM		WA	10.75
59♦#	TWC37	6.175G	10	5.925G-6.425G	CW	1500	37m	39	26*	TWT§	AM		CO	5.5
60#	LD892	6175M	11	5.925G - 6.425G	CW	2850	.043	35	25	TWT§	AM		WA	9.3
61#	VTJ2609A4	6175M	13	5.925G-6.425G	CW	1900	50m	43	23	TWT	AM		WA	8.3
62#	VYJ2609A4	6175M	13	5.925G-6.425G	CW	1900	50m	43	23	TWT§	AM		WA	8.3
63#	TWC35	6175M	15	5.925G-6.425G	CW	4000	37m	39	26*	TWT§	AM		WA	5.5 Δ
64#	VTJ2618A1	6175M	15	5.925G-6.425G	CW	2800	40m	35	25	TWT§	AM		WA	10.5 *
65#	LD747	6175M	20	5.925G - 6.425G	CW	3604	.04	42	25	TWT§	AM		WA	
66#	LD4035	6175M	20	5925M-6425M	CW	3000	47m	47	23	TWT§	AM		WA	6.7
67#	VTJ2609A1	6175M	21	5.925G-6.425G	CW	1900	45m	43	23	TWT	AM	FF	WA	8.3
68#	VYJ2609A1	6175M	21	5.925G-6.425G	CW	1900	45m	43	23	TWT§	AM	FF	WA	8.3
69#	LD700	6175M	22	5.925G - 6.425G	CW	3600	.046	43	25	TWT§	AM		WA	
70#	VTJ2608A1	6175M	22	5.925G-6.425G	CW	3600	45m	40	23	TWT§	AM		WA	9.24 *
71#	LD920	6175M	25	5.925G - 6.425G	CW	3800	.047	43	24	TWT§	AM		WA	7.5
72#	VTJ2609A2	6175M	25	5.925G-6.425G	CW	3600	50m	43	24	TWT§	AM		WA	8.3 *
73#	VTJ2609A3	6175M	25	5.925G-6.425G	CW	3600	50m			TWT§	AM		WA	8.3 *
74▼#	N10003	6175M	35	5.925G-6.425G	CW	3900	60m	44	23	TWT§	AM		WA	
75#	VTJ2632A1	6175M	35	5.925G-6.425G	CW	4000	75m	40†	30*	TWT	AM		WA	15
76	STC52161	6175M	250	5.925G-6.425G	CW	7200	360m	36†	40*	TWT§	AM		WA	7.0 Δ
77♦#	TH3508	6175M	250 †	5.925G-6.425G	CW	5.4k	300 Ø	35†	30	TWT	AM		CO	5.52
78▼#	LD4025A	6175M	300	5.925G-6.425G	CW	6800	330m	40		TWT§	AM		WA	13.22 *
79	STC52165	6175M	300	5.925G-6.425G	CW	7.5k	380m	45		TWT§	AM		WA	7.5
80	VTC6361A1	6175M	600 †	5.925G - 6.425G	CW	6200	.50	33†	35	TWT§	AM			10
81	VTC6364A1	6.175G	1.0k	5.925G-6.425G	CW	12.5k	1.0	30		TWTØ	AM		WG	150 *
82#	YH1043	6175M	1200	5.925G-6.425G	CW	8000	1.0	33		TWT*Ø	AM		WA	154 *
83	VTC6362A1	6175M	1.5k	5.925G-6.425G		10k	1.0	40		TWTØ	AM		CO	13
84#	YH1041	6175M	3000	5.925G-6.425G	CW	14000	1.8	32		TWT#§	AM		WA	154 *
85#	YH1045	6175M	5000	5.925G-6.425G	CW	20000	3.5	33		TWT*Ø	AM		WA	760 *
86	M5600	6175M	8000 †	5.925G - 6.425G	CW	19000	2.8	40†	50*	TWT#Ø	AM		WA	150 Δ
87#	M7880B	6175M	8000	5.925G-6.425G	CW	19000	3.0	38		TWTØ	AM		WA	17.6
88#	YH1044	6175M	8000 †	5.925G - 6.425G	CW	20000	3.2	40		TWTØ#	AM		WA	44 §
89#	LD793	6175M	8500	5.925G - 6.425G	CW	18000	2.9	39		TWTØ	AM		WA	35
90#	M7880	6175M	10000 †	5.925G - 6.425G	CW	22000	3.5	37†		TWTØ#	AM		WA	17.6
91	614H	6175M	12k	5.925G-6.425G	CW	20k	3.2	41		TWTØ#	AM		WA	95 *
92	VTC6660C1	6175M	12500	5.925G-6.425G	CW	21000	3.8	37.5		TWTØ#	AM		WA	30
93#	LD4052A	6175M	14000	5.925G-6.425G	CW	24000	3.7	40		TWT§	AM		WA	50
94#	LB6-10	6200M	5.0	5.90G-6.50G	CW	4000	50m	35	25	TWT*	AM		WA	310m
95#	LB6-10B	6200M	10	5.9G-6.5G	CW	3.0k	50m	35	25*	TWT	AM		WA	.470
96	M5752#1	6200M	10 †	5.40G-7.00G	CW	3600	75m	60†	35*	TWT§	AM		CO	3.56 Δ
97#	LB6-25	6200M	15	5.90G-6.50G	CW	4000	50m	38	28	TWT*	AM		WA	330m
98#	TWC14	6.200G	18	5.900G-6.500G	CW	3600	45m	40	28	TWT§	AM		WA	10.75
99♦#	F4181	6200M	25 †	5.900G-6.500G	CW	3.9k	50mØ	37†	25	TWT	AM		CO	1.21
100♦#	TOP1401	6200M	25 †	5.900G-6.500G	CW	3.9k	50mØ	37†	25	TWT	AM		CO	17.63
101	VTC6260H2	6200M	100	4.800G-9.600G		5.0k	250m	40		TWT§	AM		CO	7.0
102	VTJ6264C4	6200M	200	4.800G-9.600G		8.5k	280m	30		TWT§	AM		CO	6.0
103	VTC6363A1	6.2G	3.0k	5.925G-6.425G	CW	13.5k	1.8	26	45	TWT	AM		WA	35
104	VTC4461P6	6220M	120m	4.050G-8.400G				30	17	TWT§	AML		CO	8.0
105	WJ494	6250M	1.0m	2.50G-10.0G	CW	125 §⍁†		25	10*	TWT	AML		CS	18 Δ
106#	YH1200	6450M	20	5.8G-7.1G	CW	3.0k	45m	40		TWT§	AM		CO	1.76
107▼#	N10001-1	6500M	10	5.850G-6.450G	CW	3400	45m	44	23	TWT§	AM		WA	9.0
108#	N1029	6500M	12	5.800G - 7.200G	CW	3300	.042	42		TWT§	AM		WA	.75 §
109#	N1055	6500M	20 *	5.800G - 7.200G	CW	3400	.047	40	27	TWT§	AM		WA	.75 §
110#	N1072	6.500G	20	5.800G-7.200G	CW	4.0k	50m	42	23	TWT§	AM		WA	500m§

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	W5-4G	6.500G	20 *	5.850G-7.200G	CW	3.7k	55m	36†	26*	TWT§	AM		WA	18
2	W5/2G	6500M	20 *	5.850G - 7.200G	CW	3700	.055	41	28	TWT§	AM		WA	18.5 *
3	W5/1G	6525M	10 *	5.850G - 7.200G	CW	3500	.05	37	26	TWT†	AM		WA	79
4	VTC4414S6	6550M	20m	5.850G-7.250G				30	6.5	TWT§	AML		CO	7.5
5♦#	TH3522	6550M	7.0 †	5.900G-7.200G	CW	3.0k	25mØ	32†	26	TWT	AM		CO	1.43
6▼#	LD812B	6700M	18	6.430G-7.110G	CW	3300	40m	40		TWT§	AM		WA	8.818
7#	VTJ2607A1	6.725G	10 †	6.575G-6.875G	CW	3.0k	35m	30	27	TWT§	AM		WA	10.63
8	EM1060	6750M	.50 †	2.500G - 11.00G	CW	3000	.025	30	30	TWT†	AM		CO	4.5 *
9	VTG6028A1	6750M	.50 †	2.500G - 11.00G	CW	3000	.025	30†		TWT§	AM		CO	4.5
10▼#	TH20107	6750M	7.0 †	6.400G-7.100G	CW			35	30*	TWT§	AM		CO	5.0
11♦#	F4056B	6750M	8.0 †	6.000G-7.500G	CW	2.6k	45mØ	23†		TWT†	AM		CO	1.10
12#	TWC5C	6.750G	10	6.400G-7.100G	CW	3500	45m	40	30	TWT§	AM		WA	10.75
13#	TWC14C	6.750G	18	6.400G-7.100G	CW	3600	45m	40	28	TWT§	AM		WA	10.75
14♦#	TH3515	6760M	20 †	6.400G-7.120G	CW	3.7k	40mØ	33†	25	TWT	AM		CO	1.43
15♦#	TWC37C	6765M	10	6.42G-7.11G		1500	37m	39	26*	TWT§			CO	
16#	TWC35C	6767M	15	6.425G-7.110G	CW	4000	37m	39	26*	TWT§	AM		WA	5.5 △
17#	LD928	6770M	3.5	6.430G - 7.110G	CW	2000	.018	43	25	TWT§	AM		WA	6.0
18#	VTJ2626A1	6770M	3.5	6.43G-7.11G	CW	2000	18m	43	25	TWT§	AM		WA	6.0 *
19▼#	LD863	6770M	18	6.430G-7.110G	CW	3300	40m	43		TWT§	AM		WA	9.038
20#	LD800	6770M	22	6.425G - 7.125G	CW	3600	.046	44	25	TWT§	AM		WA	
21#	VTJ2608A2	6770M	22	6.425G-7.125G	CW	3600	45m	42	24	TWT§	AM		WA	9.24 *
22#	VTJ2624A1	6770M	28	6.43G-7.11G	CW	3650	53m	35	23	TWT§	AM		WA	9.15 *
23#	LD4086	6770M	30	6.430G-7.110G	CW	3.9k	58	38	22	TWT§	AM		WA	10
24#	LD4088	6775M	5.5 †	6425M-7125M	CW	21 §Ø		34†	22	TWT§	AM	VT	CO	8.5
25#	VTJ2609A11	6775M	20 †	6.425G-7.125G	CW	1900	45m	36	26	TWT	AM		WA	8.3
26#	VYJ2609A11	6775M	20 †	6.425G-7.125G	CW	1900	45m	36	26	TWT§	AM		WA	8.3
27#	YH1203	6775M	22	6.425G-7.125G	CW	3300	67m	39		TWT	AM		CO	4.2
28▼#	LD931	6775M	25	6.425G-7.125G	CW	3350	45m	44		TWT§	AM		WA	7.054
29#	VTJ2623A1	6800M	3.4	6.4G-7.15G	CW	2200	16m	34		TWT§	AM		CO	4.4 *
30#	M4837P	6.8G	5.5	6.4G-7.2G	CW	24	2.6	35		TWT§	AM		CO	9.0
31#	M4837PC	6800M	5.5	6.400G-7.200G	CW	24	2.6	35		TWT§	AM	FF	CO	8.8
32#	LB6-25A	6800M	10	6.40G-7.20G	CW	4000	50m	38	28	TWT*	AM		WA	330m
33▼#	N10001-2	6800M	10	6.450G-7.150G	CW	3400	45m	44	23	TWT§	AM		WA	9.0
34▼#	LD550T	6800M	14	5.800G-8.200G	CW	3200	35m	33		TWT§	AM		WA	11.02
35#	7W402	6800M	16	6.425G - 7.125G	CW	3700	.05	40		TWT§	AM		WA	
36#	7W412	6800M	18	6.400G - 7.200G	CW	2000	.047	40		TWT§	AM		WA	
37#	7W412V	6800M	18	6.400G-7.200G	CW	2000	47m	40		TWT§	AM		WA	
38	M9337	7000M	3.17m†	2.00G-12.0G	CW	115 §△⍁		10†	20*	TWT§	AM		CO	4.0 △
39	M9337A	7000M	3.98m†	2.00G-12.0G	CW	115 §△⍁		22†	19*	TWT§	AM		CO	4.0 △
40	VTH6077A1	7000M	10	4.000G-10.00G		2.9k	75m	48		TWT*§	AM		CO	2.5
41	VTH6079A1	7000M	10 †	4.000G - 10.00G	CW	2900	.075	37†	27	TWT§	SEA		CO	3.0
42	STC52131	7000M	200	5.200G-10.000G	CW	9300	250m	35	40	TWT	AM		CO	7.0
43#	LD812	7100M	18	6.500G - 7.700G	CW	3800	.041	41	25	TWT§	AM		WA	
44#	TWC5B	7.150G	10	6.90G-7.40G	CW	3500	45m	36	30	TWT§	AM		WA	10.75
45♦#	TWC37B	7150M	10	6.90G-7.40G		1500	37m	39	26*	TWT			CO	
46#	RW80	7150M	15	5.80G-8.50G	CW	1600	55m	40	22	TWT§	AM		WA	22 *
47#	TWC14B	7.150G	15	6.90G-7.40G	CW	3600	45m	36	28	TWT§	AM		WA	10.75
48#	TWC35B	7150M	15	6.90G-7.40G	CW	4000	37m	39	26*	TWT§	AM		WA	5.5 △
49#	RW81	7150M	20	5.80G-8.50G	CW	1700	70m	41	22	TWT§	AM		WA	22 *
50#	YH1120	7150M	20 †	5.800G-8.500G	CW	3500	55m	36	25	TWT§	AM		WA	10.4
51	YH1170	7.15G	22	5.8G-8.5G	CW	2.7k	60m	42	25	TWT§	AM		WA	12 *
52	VTH4471H1	7200M		4.800G-9.600G				35	17	TWT§	AML		CO	8.0
53	VTH4370H3	7200M	10m	4.800G-9.600G		115 ⍁△§		40	9.5	TWT§	AML		CO	5.5
54	VTH4371H1	7200M	100m	4.800G-9.600G		115 ⍁△§		35	17	TWT§	AML		CO	5.0
55#	N1083	7200M	25 †	4.80G-9.60G	CW	5000	88m	43†		TWT§	AM		CO	3.1
56▼	WJ3634#1	7200M	200	4.800G-9.600G	CW	8200	450mØ	35	40	TWT§*	AM		CO	10
57▼	WJ3634-1	7200M	250	4.800G-9.600G	CW	8200	450mØ	35	40	TWT§*	AM		CO	10
58▼	WJ3634-2	7200M	250	4.800G-9.600G	CW	8200	450mØ	35	40	TWT§	AM		CO	10
59▼	WJ3634#2	7200M	400	4.800G-9.600G	250m	8200	650mØ	40	40	TWT§*	AM		CO	10
60	L2385	7250M	2.0	4.50G-10.00G	CW	2.0k	25m	35	30	TWT§	AM		CO	3.0
61	648H	7250M	10	4.00G-10.50G	CW	2.7k	60m	30		TWT	AM	FF	CO	3.0
62	648HS	7250M	10	4.00G-10.50G	CW		60m	30		TWT	AM	FF	CO	3.0
63♦	1177H06F	7250M	10	4.00G-10.5G	CW	120 §*△		40	35*	TWT§	AM		CO	20 △
64#	W5-2GF	7.250G	16 *	6.600G-7.900G	CW	3.7k	55m	34†	30*	TWT§	AM		WA	18
65	WJ440-1	7250M	600 †	5.500G - 9.000G	CW	8300		30†		TWT§			CO	11
66	L2371	7300M	300m	4.80G-9.80G	CW	1.3k	10m	38	17	TWT§	AM		CO	2.0
67	L2372	7300M	1.0	4.80G-9.80G	CW	1.8k	20m	38	17	TWT§	AM		CO	2.0
68#	VTH2610A1	7400M	22	7.125G-7.75G	CW	3700	45m	43	25	TWT§	AM		WA	9.24 *
69	L5564	7400M	200	4.80G-10.00G	CW	9.0k	325m	45	35	TWT§	AM		WA	7.0
70▼#	LD4009	7440M	19	7.125G-7.750G	CW	3400	45m	43		TWT§	AM		WA	12.56
71#	LD871	7440M	20	7.125G - 7.750G	CW	3700	.046	42	25	TWT§	AM		WA	9.2
72♦#	TOP1407	7450M	7.0 †	7.100G-7.800G	CW	3.0k	25mØ	35†	28	TWT	AM		CO	1.43
73	VTX4403C4	7500M	40m	7.250G-7.750G		115 ⍁△§		30	8.0	TWT§	AML		WA	16
74	1200H	7500M	500m	7.00G-8.00G	CW	33 §Ø		30		TWT§	AM		CO	4.5
75	L2382	7500M	1.0	5.00G-10.00G	CW	2.0k	20m	30	30	TWT§	AM		CO	3.0
76	263H	7500M	1.5	7.00G-8.00G	CW	1750 Ø	4.75mØ	38		TWT§	AM		CO	1.0
77#	N1078	7500M	4.0	5.00G-10.00G	CW	2.5k	35m	45		TWT	AM		CO	2.0 *
78▼	298H	7500M	10	7.250G-7.750G	CW	3700	25m	50		TWT	AM		CO	2.3
79	L5437	7500M	10	5.000G-10.00G	CW	2500	.050	30		TWT§	AM		CO	400m
80#	8W403	7500M	12	7.100G - 7.900G	CW	3100	.04	40		TWT§	AM		WA	
81#	M4826F	7.500G	12	7.100G-7.900G	CW	3300	47m	40		TWT§	AM		WA	
82#	8W413	7500M	15	7.100G - 7.900G	CW	2000	.047	40		TWT§	AM		WA	
83#	8W413V	7500M	15	7.100G-7.900G	CW	2000	47m	40		TWT§	AM		WA	
84	240H	7500M	20	6.00G-9.00G	CW	3.4kØ	42mØ	40		TWT§	AM		CO	2.75
85▼	293H	7500M	40	7.250G-7.750G	CW	4000	48m	45		TWT	AM		CO	3.5
86	STX52203	7500M	100	7.00G-8.00G	CW	8.9k	250m	40†		TWT†	AM		CO	7.0
87#	N1077	7.50G	140	5.0G-10.0G	CW	3250	1.5m△	35		TWT§	AM		CO	6.25 *
88	L5489	7500M	1250	5.00G-10.00G	20m	11000	1.65	50		TWT§	AM		CO	6.0
89#	8W23	7550M	5.0	7.300G - 7.800G	CW	2850	.03	36		TWT§	AM		WA	
90#	TWC5A	7.600G	10	7.400G-7.800G	CW	3500	45m	36	30	TWT§	AM		WA	10.75
91♦#	TWC37A	7600M	10	7.40G-7.80G		1500	37m	39	26*	TWT			CO	
92#	TWC14A	7.600G	15	7.400G-7.800G	CW	3600	45m	36	28	TWT§	AM		WA	10.75
93#	TWC35A	7600M	15	7.40G-7.80G	CW	4000	37m	39	26*	TWT§	AM		WA	5.5 △
94▼#	LD812A	7700M	16	7.400G-7.800G	CW	3200	40m	40		TWT§	AM		WA	8.818
95	F2104	7.750G	10	7.100G-8.400G	CW	3.000k	65m	30†	35	TWT§	AM		CO	4.0
96	N1038	7750M	10	7.000G - 8.500G	CW	3300	.042	40		TWT§	AM		WA	.75 §
97	VZX6981S3	7750M	10	7.100G-8.400G		115 △§				TWT	AM			
98#	W4/2G	7750M	15 *	7.000G - 8.500G	CW	3700	.05	36†	26	TWT*	AM		WA	
99#	N10000	7750M	16	7.00G-8.50G	CW	4.0k	50m	43	24	TWT	AM		WA	9.0
100#	N1071	7.750G	20	7.000G-8.500G	CW	4.0k	50m	43	24	TWT§	AM		WA	500m§
101#	YH1172	7750M	22	7.00G-8.50G	CW	2700	58m	45	24	TWT	AM		WA	12
102▼	WJ3507	7800M	1.0 †	5.200G-10.400G	CW	1800	25m	30†	30*	TWT§*	AM		CO	1.75
103▼	WJ3803	7800M	5.0	5.200G-10.400G	CW	2900	30mØ	43	22	TWT§	AM		CO	2.5
104	785H02	7800M	10	3.90G-11.70G	CW	3400	45m	50*		TWT§	AM		CO	3.0
105♦	1177H03F005	7800M	10 †	3.90G-11.7G	CW	120 §*△		50†	35*	TWT	AM		BB	30 △⍁
106	L5487	7800M	30	5.20G-10.40G	CW	2400	110m	46		TWT§	AM		CO	600m
107	WJ3033	8000M	1.0m	4.00G-12.00G	CW	125 §⍁†		25†	8.5*	TWT	AML		CS	18 △
108♦#	TOP1222	8000M	10m†	5.000G-11.000G	CW	1.2k	3.0mØ	35†	12	TWT	AM		CO	2.20
109	8198	8000M	1.0	5.000G - 11.00G	CW	2900	.023	60		TWT	AM		CO	4.5 *
110	EM778	8000M	1.0	5.000G - 11.00G	CW	2900	.023	60		TWT§				4.5 *

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY
(3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	EM778J	8000M	1.0	5.000G - 11.00G	CW	2900	.026	60		TWT§	AM		CO	
2	EM1039A	8000M	1.0 †	4.000G - 12.00G	CW	2900	.023	36		TWT	AM			
3	EM1047	8000M	1.0	5.000G - 11.00G	CW	2950	.023	60		TWT§				
4#	TWX22	8.0G	1.0	7.9G-8.1G	CW	2.8k	8.0m	42		TWT§	AM		WA	7.0 △
5♦#	F4186	8000M	2.0 †	5.000G-11.000G	CW	2.1k	25mØ	55†	30	TWT	AM		CO	1.59
6	VTH6074A2	8000M	2.0 †	5.000G - 11.00G	CW	2200	.025	30†		TWT§	AM		CO	1.0
7	VTH6074H2	8000M	2.0 †	5.000G - 11.00G	CW	2200	.025	60†		TWT§	AM		CO	1.25
8	M5350	8000M	20 †	5.00G-11.0G	CW	4100	120m	33†	35*	TWT§	AM		CO	3.0 △
9	265H	8000M	22	7.00G-9.00G	CW	3.8kØ	50mØ	46		TWT§	AM		CO	2.21
10	1202H	8000M	22	7.00G-9.00G	CW	33 §Ø		46		TWT§	AM		CO	9.5
11	STC52132	8000M	100 †	4000M-12000M	CW	9.0k	250m	25†		TWT§	AM		CO	7.0 △
12	L5555	8000M	1000	6.00G-10.00G	20m	11k	2.0	60	40	TWT§	AM		CO	6.0
13♦	756H	8000M	9000	X Band,10% B.W.	500m	18500	2.5	54†		TWT#*	AM		WA	49
14▼#	N1061	8000M	900000	X Band,450M BW	5.0m	100k	31	33		TWT§#	AM	BB	WA	320
15	L3972	8050M	1.0 †	5.400G - 10.70G	CW	2100	.04	55†		TWT*§	AM		CO	1.5 △
16	L3957	8050M	2.0 †	5.400G - 10.70G	CW	2300	.04	60†		TWT§	AM		CO	1.5 △
17	M4444	8050M	12500	7.700G - 8.400G	CW	18000 Ø	3.0	34		TWTØ	AM		WA	
18#	LD873	8075M	17	7.750G - 8.400G	CW	3700	.046	42	25	TWT§	AM		WA	9.2
19▼#	LD4018	8075M	17	7.750G-8.400G	CW	3300	45m	43		TWT§	AM		WA	12.56
20#	VTH2610A2	8100M	17	7.75G-8.40G	CW	3410	45m	42	25	TWT	AM	FF	WA	9.24
21#	VYH2610A2	8100M	17	7.75G-8.40G	CW	3410	45m	42	25	TWT§	AM	FF	WA	9.24
22	VTX4403J1	8.15G	40m	7.900G-8.400G		115 △§		30	8.0	TWT§	AML		CO	16
23	EM1184E	8150M	3.0	7.900G - 8.400G	CW	120	.50	62	27	TWT	AM		WA	1.25
24	VTX6081B1	8150M	15 †	7.900G - 8.400G	CW	2400	.05	27†	27	TWT§	AM		CO	2.5
25	VZX6981S4	8150M	35	7.900G-8.400G		115 △§				TWT	AM			
26	VTX6181A	8150M	40	7.90G-8.40G		3.5k	850m	40		TWT	AM		CO	2.5
27	287H	8150M	50	7.900G-8.400G	CW	4250	57mØ	33†		TWT§	AM		CO	2.25
28	M5616	8150M	125	7.900G - 8.400G	CW	6400	.20	47		TWT§	AM		CO	
29	STX5223	8150M	250	7.900G - 8.400G	CW	8700	.23	37		TWT	AM	VT	CO	6.0
30▼	WJ440-20	8150M	400	7.900G-8.400G	CW	9000	550mØ	45	35	TWT§	AM		CO	25
31▼	8760H#2	8150M	600	7.900G-8.400G	CW	13000	340m	35		TWT	AM		WA	26
32▼	8760H#1	8150M	1200	7.900G-8.400G	CW	13000	540m	40		TWT	AM		WA	26
33	745H	8150M	1.4k	7.90G-8.40G	CW	10.5k	920m	31		TWT*	AM		WA	42 *
34	M5701	8150M	2000 †	7.90G-8.40G	CW	12000	1.35	35†	50*	TWT#	AM		WA	70 △
35	M5731	8150M	3000 †	7.90G-8.40G	CW	14000	1.4	35†	50*	TWT#	AM		WA	70 △
36	767H	8150M	3.6k	7.90G-8.40G	CW	13.5k	1.5	37		TWT	AM		WA	
37	VTX6625	8150M	5000 †	7.90G-8.40G	CW	13500	2.1	35†		TWTØ#	AM		WA	25
38♦	792H	8150M	5400	7.900G-8.400G	CW	13700	2.2	37		TWT	AM		WA	68
39	784H	8150M	6.0k	7.90G-8.40G	CW	16.5k	1.9	39		TWT	AM		WA	
40	VTX6384	8150M	8000	7.90G-8.40G	CW	19500	3.0	35		TWTØ#	AM		WA	30
41	VTX6384A1	8150M	8.0k	7.900G-8.400G		17k	2.8	35		TWTØ	AM			35 §
42	VTH6070A1	8200M	1.0 †	4.000G - 12.40G	CW	2250	.025	30†		TWT§	AM		CO	1.25
43♦	VTH6070A2	8200M	1.0 †	4.000G-12.400G	CW	2300	35m	30†	30*	TWT§*	AM		CO	1.0
44	VZH6070C1	8200M	1.0	4.000G-12.40G		115 ⍁§				TWT	AM			
45	VZH6070D1	8200M	1.0	4.000G-12.40G		28 Ø§				TWT	AM			
46	EM1015S	8200M	2.0	4.000G - 12.40G	CW	2450	.025	40		TWT§	AM		CO	
47♦	VTH6074B1	8200M	2.0 †	5.400G-11.000G	CW	2300	30m	30†	30*	TWT§*	AM		CO	1.0
48♦	VTH6074J1	8200M	2.0 †	5.400G-11.000G	CW	2300	30m	60†	30*	TWT§*	AM		CO	1.25
49	VZH6074C1	8200M	2.0	5.400G-11.00G		115 ⍁§				TWT	AM			
50	VZH6074D1	8200M	2.0	5.400G-11.00G		28 Ø§				TWT	AM			
51	F2084	8200M	10	5.400G - 11.00G	CW	3200	.07	65		TWT§	AM		CO	
52	VTH6071A1	8200M	10 †	5.400G - 11.00G	CW	3600	.09	42†	27	TWT§	AM		CO	3.0
53	L5380	8.200G	15	7.900G-8.400G	CW	3500	80m	50		TWT§	AM		WA	2.5
54	F2548	8200M	20	5.4G-11.0G	CW	3600	75m	58	35	TWT§	AM		CO	3.2
55	WJ472	8250M	.03 †	6.000G - 10.50G	CW	115 △⍁§		25†	13*	TWT†	AML		CO	6.5
56#	TL8101	8250M	200	7.90G-8.40G	CW	6300	200m	38		TWT	AM		WA	9.5
57	VTH4471P1	8300M	100m	4.300G-12.30G				30	17	TWT§	AML		CO	8.0
58	285H	8450M	24	8.400G-8.500G	CW	3.4k	36mØ	37†		TWT§	AM		CO	2.25
59	M5236	8500M	.01	7.000G - 10.00G	CW	1300	3.1m	20	30	TWT§	SER		CO	
60	M5635	8500M	.01 †	7.000G - 10.00G	CW	1220	1.5m	40†	10*	TWT§	AML		CO	4.0
61♦#	TH3524	8500M	1.0 †	7.000G-10.000G	CW			24†		TWT	AM		CO	
62	L5154	8500M	5.0	7.000G-10.000G	CW	2650	55m	50		TWT§	AM		CO	3.2
63	219H	8500M	20	8.00G-9.00G	CW	3.4kØ	40mØ	40		TWT§	AM		CO	1.51
64#	LY30	8500M	20 *	5.20G-10.90G	10m	34k	7.0	50		TWT#	AM		WA	12
65	M5790	8500M	20 †	6.00G-11.0G	CW	3400	100m	35†	35*	TWT§	AM		CO	3.0 △
66	VTH6170A1	8500M	20 †	6.000G - 11.00G	CW	3200	.09	35†	30	TWT§	AM		CO	2.5
67	VTH6170B1	8500M	20 †	6.000G - 11.00G	CW	3200	.09	35†	30	TWT§	AM		CO	2.5
68	VTH6170H1	8500M	20 †	6.000G - 11.00G	CW	3200	.09	54†	30	TWT§	AM		CO	3.0
69	VTH6170J1	8500M	20 †	6.000G - 11.00G	CW	3200	.09	54†	30	TWT§	AM		CO	3.0
70	VZH6971E1	8500M	20	6.000G-11.00G		115 △§				TWT	AM			
71	L5422	8550M	3.0k	8.500G-8.600G	20m	11200	2.0	60		TWT§	AM		CO	7.0
72#	TWX16	8650M	5000 △	8.000G - 9.300G	.006	25000	.05	40†		TWT*Ø	AM		WA	79.2
73	VTX4412P1	8.75G	10m†	7.15G-10.35G	CW	§		27†	10*	TWT§	AML		CO	16.5
74	VTX4403S9	8800M	40m	7.250G-8.400G		115 △§		30	8.0	TWT§	AML		CO	16
75	722H	8800M	1000	8.40G-9.20G	CW	11k	1.2	40		TWT	AM	FF	WA	45
76	723H	8800M	1000	8.40G-9.20G	250m	10k	1.2	40		TWT	AM	FF	WA	35
77▼	8713H	8800M	1500 †	7.400G-10.200G	CW	10000	1.28	40		TWT#	AM		WA	54
78	739H	8800M	2.0M	8.400G - 9.200G	.005	47500	20.6	12		TWT§	AM		WA	12 △
79	M2105GA	8900M	.005	7.050G - 10.75G	CW	1300	1.5m	30	11	TWT*§	AML		CO	
80	718H	8.900G	100k	8.800G-9.000GØ	5.0m	39k	6.8	45		TWT§#	AM		WA	14 *
81	752H	8900M	100k†	8.40G-9.40G	10m	50kØ	15 Ø	16		TWT†#	AM		WA	30
82	WJ396	9000M	.00003 †	7.000G - 11.00G	CW	115 §△⍁		25†	6.0*	TWT†	AML		CO	8.5 △
83	WJ276-2	9000M	.0003 †	7.000G - 11.00G	CW	115 △⍁§		25†	8.5*	TWT†	AML		CO	17 △
84	M5216	9000M	.001 †	7.500G - 10.50G	CW	1300	.001	27†	15*	TWT§	LIM		CO	
85	8154	9000M	.005 †	7.000G - 11.00G	CW	850	1.0m	25†	10*	TWT†	AML		CO	11.5
86	VTX4415P1	9.0G	5.0m†	7.0G-11G	CW	§		25†	8.0*	TWT§	AML		CO	7.0
87	WJ297-2	9000M	.005 †	7.000G - 11.00G	CW	115 △⍁§		25†	9.5*	TWT†	AML		CO	4.5 △
88♦#	TWX28	9000M	5.1m†	7.00G-11.000G				35†	11*	TWT	AML	BB	CO	
89♦#	F4026B	9000M	10m†	6.900G-11.100G	CW	1.2k	3.0mØ	35†	13	TWT	AM		CO	2.20
90	L2337	9000M	.01	7.000G-11.00G	CW	1300	1.5m	30	20	TWT§	AM		CO	2.0
91	M2106G	9000M	.01	7.000G - 11.00G	CW	1300	1.5m	33	20	TWT*§	AML		CO	
92	M5217	9000M	.01 †	7.500G - 10.50G	CW	1300	.003	35†	30*	TWT§	LIM		CO	
93	M5355	9000M	.01	7.000G - 11.00G	CW	1200	.003	30	15	TWT§	AM		CO	
94	M5390	9000M	.01	7.000G - 11.00G	CW	1200	.003	30	20	TWT§	AM		CO	
95	M5526	9000M	.01	7.000G - 11.00G	CW	1220 §	.001	35	10	TWT§	AML		CO	
96	VTX4380P1	9000M	10m	7.000G-11.00G		115 ⍁△§		25	9.5	TWT§	AML		CO	5.0
97	VTX4380P2	9000M	10m	7.000G-11.00G		115 ⍁△§		40	9.5	TWT§	AML		CO	5.5
98	WJ424-6	9000M	.01 †	8.500G - 9.500G	CW	115 △⍁§		25†	6.5*	TWT†	AML		CO	6.5
99	L3611	9000M	20m	7.000G - 11.00G	CW	1100	2.5m	36		TWT§	AM		CO	1.1
100	M5370	9000M	.02	7.000G - 11.00G	CW	1200	.003	30	20	TWT§	AM		CO	
101	VTX4415H1	9000M	20m	7.000G-11.00G		115 ⍁△§		35	8.0	TWT§	AML		CO	7.0
102	WJ484	9.0G	20m	7.0G-11G	CW	115 §△⍁		38†	13*	TWT	LIM		CO	3.5 △
103	M4429	9000M	.25 †	3.000G - 15.00G	CW	2800	.025	35†		TWT§	AM		CO	
104	L5045	9000M	1.0 †	7.000G - 11.00G	CW	1600	.025	33		TWT§	AM		CO	1.02
105	F2086	9000M	2.0	2.000G - 16.00G	CW	3200	.07	40		TWT§	AM		CO	
106	L2378	9000M	2.0	8.00G-10.00G	CW	2.5k	15m	60	18	TWT§	AM		CO	2.5
107	L3998	9000M	2.0 †	7.000G - 11.00G	CW	2300	.042	36†		TWT*§	AM		CO	1.02
108	M2403E	9000M	2.0	7.000G - 11.00G	CW	2500	.03	30	35	TWT*§	AM		CO	
109	M2411B	9000M	2.0 †	7.000G - 11.00G	CW	3300	.028	43†	35*	TWT	AM		WA	
110#	N1079	9000M	2.0 †	7.00G-11.0G	CW	2500	25m	36†		TWT§	AM		CO	2.0

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	8779	9000M	2.5	7.000G - 11.00G	CW	3300	.025	45	26	TWT§	AM		WA	
2	WJ3804	9000M	3.0 †	7.00G-11.0G	CW	3200	30m	45	20	TWT§*			CO	2.0 △
3	8829	9000M	4.0	7.000G - 11.00G	CW	3400	5.0m	45	18	TWT†	AM		WA	
4#	VTH2601A1	9.0G	4.0	7.0G-11G	CW	3.3k	15m	46	30	TWT§	AM		WG	5.0 *
5	EM1030	9000M	5.0 †	7.000G - 11.00G	CW	3300	.035	60	30	TWT†	AM		CO	4.5 *
6	M2404-O	9000M	5.0	7.000G - 11.00G	CW	3600	.06	30	35	TWT*	AM		CO	
7	L3928	9000M	10 †	7.000G - 11.00G	CW	3050	.075	40†		TWT*§	AM		CO	2.5
8	L5043	9000M	10 †	7.000G - 11.00G	CW	3350	.075	60†		TWT*§	AM		CO	2.05
9	L5293	9.000G	10	7.000G-11.000G	CW	3.200k	80m	35		TWT§	AM		CO	3.0
10	L5566	9000M	10	7.00G-11.00G	CW	3.2k	80m	60	35	TWT§	AM		CO	3.0
11	M2404Q	9000M	10	7.000G - 11.00G	CW	3600	.06	30	35	TWT*	AM		CO	
12#	TWX34	9000M	10	7.000G-11.00G	CW	2800	8.0m	36		TWT§	AM		WA	4.5
13	VTX6081A1	9000M	10 †	7.000G - 11.00G	CW	2400	.06	22†	27	TWT§	AM		CO	2.5
14♦	VTX6089H2	9000M	10 †	7.000G-11.000G	CW	3600	90m	45†	30*	TWT§*	AM		CO	3.0
15	VZX6980E3	9000M	10	7.000G-11.00G		115 △§				TWT	AM			
16	8609	9000M	12.5	7.000G-11.000G	10m	12k	2.0	40		TWT	AM		CO	4.75
17	QKW1132	9000M	15	7.000G-11.000G	10m	11k	2.0	40		TWT	AM		CO	4.75
18	F2552	9000M	20	7.000G - 11.00G	CW	3200	.07	65		TWT§	AM		CO	
19	L5073	9000M	20 †	7.000G - 11.00G	CW	3600	.12	60†	35	TWT§	AM		CO	4.0 △
20	L5275	9.000G	20	7.000G-11.000G	CW	3.500k	80m	35		TWT§	AM		CO	3.0
21	M5572	9.0G	20	7.0G-11G	CW	3.4k	105m	35	35	TWT§	AM	SR	CO	
22	M5752#2	9000M	20 †	7.00G-11.00G	CW	3600	75m	60†	35*	TWT§	AM		CO	3.56 △
23	QKW1309	9000M	30	7.000G-11.000G	20m	11k	2.0	40		TWT	AM		CO	4.75
24	L5241	9.000G	100	7.000G-11.000G	CW	6250	175m	35		TWT§	AM		CO	5.0
25	M4369	9000M	100	7.000G - 11.00G	CW	6600	.20	30	35*	TWT§	AM		CO	2.5
26	M5314K	9000M	100 †	7.00G-11.0G	CW	6600	200m	30†	35*	TWT§	AM		CO	7.5 △
27	M5480K	9000M	100 †	7.00G-11.0G	CW	6600	200m	30†	35*	TWT§	AM		CO	7.5 △
28	VTH6270C1	9000M	100 †	7.000G-11.00G	CW	5500	210m	30†	32	TWT§#	AM		CO	5.0
29♦#	TH3509	9000M	150 †	7.000G-11.000G	CW	6.5k	200 Ø	30†		TWT	AM		CO	3.85
30	L5280	9.000G	200	7.000G-11.000G	CW	9000	275m	40		TWT§	AM		CO	8.0
31	M5804K	9000M	200 †	7.00G-11.0G	CW	9200	300m	30†	35*	TWT§	AM		WA	7.5 △
32	M5805K	9000M	200 †	7.00G-11.0G	CW	9200	300m	30†	35*	TWT§	AM		WA	7.5 △
33#	N1080	9000M	200	7.00G-11.0G	CW	8500	300u△	35		TWT§	AM		CO	8.5
34	STX5221	9.000G	200	7.000G-11.000G	CW	9.100k	250m	40	40	TWT§	AM		CO	6.0
35	STX5222	9.000G	200	7.000G-11.000G	CW	9.100k	250m	40	40	TWT§	AM		CO	6.0
36	STX52202	9000M	200 †	7000M-11000M	CW	9.0k	250m	40†		TWT§	AM		WA	6.0 △
37	STX52260	9000M	200	7.000G-11.000G	CW	9300	250m	35	40	TWT	AM		CO	7.0
38♦#	TOP1334	9000M	200 †	7.000G-11.000G	CW	6.2k	250 Ø	30†	30	TWT	AM		CO	4.40
39	VTH6272A1	9000M	200	7.000G-11.00G		9.0k	310m	33		TWT§	AM		CO	9.0
40	F2085	9000M	1000	7.000G - 11.00G	.01	12000	1.6	33†		TWT§	AM		CO	60 △
41	F2533	9000M	1000	7.000G - 11.00G	.01	12000	2.0	36		TWT§*	AM		CO	6.0 △
42	L5022	9000M	1.0k	7.00G-11.00G	10m	11.4k	2.0	35		TWT§	AM		CO	3.5
43	L5089	9000M	1000	7.000G - 11.00G	.01	11400	2.0	35		TWT§*	AM		CO	5.05
44	L5126	9000M	1000 †	7.000G - 11.00G	.01	11400	2.0	60†		TWT§*	AM		CO	6.05
45	L5220	9000M	1000	7.000G-11.00G	20m	11400	2.0	36		TWT§	AM		CO	5.5
46	M5654B	9000M	1000 †	8.00G-10.00G	CW	11000	1.2	27†	45*	TWT#	AM		WA	70 △
47	M5803	9000M	1000 †	8.00G-10.00G	CW	11000	1.35	27†	45*	TWT#	AM		WA	50 △
48	M5813	9000M	1000 †	7.00G-11.00G	20m	11000	1.8	60†	40*	TWT§*	AM		CO	6.0 △
49	M5813A	9000M	1000 †	7.00G-11.00G	20m	11000	1.8	35†	40*	TWT§*	AM		CO	6.0 △
50♦#	TH3501	9000M	1.25k†	7.000G-11.000G	15m	10.5k	1.2m	35†		TWT§	AM		CO	
51	QKW1724	9000M	1700	7.00G-11.00G	20m	11000	1.6	52		TWT	AM		CO	5.0
52	QKW1740	9000M	2000	7.00G-11.00G	20m	11000	1.7	60		TWT	AM		CO	6.0
53	QKW1741	9000M	2500	8.50G-9.50G	30m	11000	1.7	60		TWT	AM		CO	6.0
54	710H	9.000G	8.0k	8.700G-9.300G	CW	19k	2.2	50		TWTØ#	AM		WA	60
55	307H	9.000G	50k	8.500G-9.500G	10m	36k	10.3	50		TWT§	AM		WA	25 *
56▼	L5391-01	9000M	100000	8.700G-9.300G	10m	44000	15.3	62		TWT§	AM		WA	30.5
57	8780	9000M	20M	7.000G - 11.00G	CW	1300	1.5m	39	13.5	TWT§	AM		CO	
58	VTX4480P1	9050M		8.500G-9.600G				25	6.0	TWT§	AML		CO	11
59	WJ345-11	9050M	.0003 †	8.500G - 9.600G	CW	115 △⧄§		25†	6.0*	TWT†	AML		CO	18
60	VTX4415P4	9050M	10.3m	8.50G-9.60G		115 §△⧄		35	6.5	TWT§	AML		CO	7.0
61	L5567	9050M	10	8.50G-9.60G	CW	2.9k	60m	40	35	TWT§	AM		CO	0.5
62	F2088	9050M	25	8.500G - 9.600G	CW	3200	.07	65		TWT§	AM		CO	
63	725H	9050M	2000	8.500G - 9.600G	.05	11200	2.0	40		TWT§	AM		WA	25 △
64	VTX5380B1	9050M	2.0k	8.500G-9.600G	.01	12k	1.0	50		TWT*§	AM			4.0
65	VTX5780D1	9050M	20000	8500M-9600M	10m	27000	5.0	40		TWT§	AM		WA	17
66	308H	9050M	25k	8.60G-9.50G	10m	25.5kØ	6.7 Ø	50		TWT§	AM		WA	21
67▼#	LD571A	9080M	38m	8.950G-9.200G	CW	1200	200u	25	7.0	TWTØ	AML		WA	1.763 *
68	VTX4403P9	9100M		8.500G-9.600G				25	6.0	TWT§	AML		CO	15
69	QKW1331	9100M	1.0k	8.400G-9.800G	CW	10k	1.0	24		TWT	AM		WA	19
70	VTX6380A1	9100M	1.0k†	8.4G-9.8G	CW	11000	1.3	23†		TWT#	AM		WA	19
71	F2097	9100M	1250	8.200G - 10.00G	.005	11500	1.6	43†		TWT§*	AM		CO	6.0
72	STX5220	9200M	200	7.40G-11.00G	CW	9000	250m	35†	40	TWT§	AM		CO	7.0
73	L5252	9.200G	15k	9.000G-9.400G	5.0m	23k	4.6	40		TWT§*	AM		WA	17
74	JAN8882	9.225G	10m	7.450G-11.00G				10†	20*	TWT†			WA	4.5
75#	W3MQ/1D	9250M	.002 †	7.000G - 11.50G	CW	1100	.50m	39	11*	TWT*	AM		CO	27.5
76#	W3MQ/1F	9250M	.002 †	7.000G - 11.50G	CW	1100	.50m	39	11*	TWT*	AM		WA	27.5
77#	CV6087	9250M	.004	7.000G - 11.50G	CW	1550	.60u	20†	25*	TWT	AM		WA	
78#	TWX8	9250M	.50 †	7.000G - 11.50G*	CW	2800	.014 Ø	30	30*	TWT†	AM		WA	7.0 △
79	M5671	9250M	200	8.000G - 10.50G	CW			35	35	TWT	AM		CO	
80	L5542	9250M	5000	8.00G-10.50G	10m	11k	1.7	40	40	TWT§	AM		WA	6.0
81	751H	9250M	50k†	8.80G-9.70G	20m	33k	8.1	52		TWT§#	AM		WA	25
82	L5404	9300M	4000	9.000G-9.600G	10m	12000	2.5	65		TWT§	AM		CO	7.0
83▼	L5391-53	9300M	125000	8.900G-9.700G	10m	44000	13.5	60		TWT§	AM		WA	32
84	L5326	9350M	100	9.000G-9.700G	250m	5590	550m	40		TWT§	AM		CO	5.5
85	748H	9400M	25000	9.30G-9.50G	10m	24k	5.5	45		TWT	AM	FF	WA	30
86	760H	9400M	50k†	8.90G-9.90G	10m	31.5k	8.5	44		TWT§#	AM		CO	22 *
87	VTX5782A1	9400M	50k	9.00G-9.80G	100m	38000	9.0	59		TWTØ*	AM		WA	25
88	F2101	9450M	20	8.300G - 10.60G	CW	3600	.08	60†		TWT§	AM		CO	
89	L5250	9.450G	30k	9.200G-9.700G	10m	25k	6.0	50		TWT§	AM		WA	25
90	719H	9470M	40k†	9.37G-9.57G	3.0m	27k	9.5	54†		TWT§#	AM		WA	13.5
91#	CV6183	9500M	.004	8.000G - 11.00G	CW	1300	.50u	25	8.5*	TWT	AM		WA	
92	M9162	9500M	5.0m†	7.00G-12.0G	CW	115 §△⧄		37†	12*	TWT§	AM		CO	4.0 △
93	M2204E	9500M	.01	9.000G - 10.00G	CW	1300	.003	30		TWT*§	SER		CO	
94#	TWX19	9500M	10m	7.00G-12.00G		1400	800u	37	11	TWT§			CO	
95	L2361	9500M	20m	7.00G-12.00G	CW	1.2k	2.0m	37	12	TWT§	AM		CO	2.0
96	M2201K	9500M	.02	7.000G - 12.40G	CW	1300	.003	30	30	TWT*	AM		CO	
97	L2366	9500M	1.0	7.00G-12.00G	CW	2.5k	15m	30	18	TWT§	AM		CO	2.5
98	L5072	9500M	1.0 †	7.000G - 12.00G	CW	2100	.035	60†		TWT*§	AM		CO	1.05
99	L2349	9500M	2.0	8.000G-11.00G				30	35	TWT§			CO	
100	M2404K	9500M	10	8.000G - 11.00G	CW	3600	.06	30	35	TWT*	AM		CO	
101	M2404KA	9500M	10	8.000G - 11.00G	CW	3600	.06	30	35	TWT*	AM		CO	
102♦#	TH3511	9500M	150 †	8.500G-10.500G	CW					TWT	AM		CO	
103	STX5224	9.5G	200	7.0G-12G	CW	9.0k	260m	42		TWT			CO	6.0
104	STX5226-1	9.5G	300 △	8.0G-11G	CW	9.7k	300m	60*		TWT			CO	7.5 △
105	M5827	9500M	1000 †	7.00G-12.00G	20m	11000	1.8	56†	40*	TWT§*	AM		CO	6.0 △
106	310H	9.500G	1.2k	8.000G-11.000G	20m	11k	2.2	40		TWT*†	AM		WA	19
107	QKW1638	9500M	1700	7.000G-12.000G	20m	10500	2.0	42		TWT	AM		CO	5.0
108	QKW1734	9500M	2500	7.00G-12.00G	20m	11000	1.7	50		TWT	AM		CO	6.0
109	781H	9500M	3.0k	9.30G-9.70G	400m	14k	1.6	53		TWT*#	AM		WA	35 *
110	VTX5383A1	9500M	3000	9200M-9800M	500m	15000	1.6	50		TWTØ#	AM		WA	40

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY
(3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	750H	9.500G	25k	9.000G-10.000G	10m	24k	5.5	47		TWT†	AM		WA	27
2	796H	9550M	40000 †	9.200G-9.900G	50m	32k	8.0	54		TWT§#	AM		WA	28
3	M2204AE	9600M	.01	9.000G - 10.20G	CW	1300	.003	20	30	TWT*	SER		CO	
4	QKW1704	9600M	2500	9.400G-9.800G	100m	11k	1.7	57		TWT	AM		CO	3.0
5	786H	9600M	50000 †	9.300G-9.900G	120m	35k	9.2	47		TWT	AM		WA	45
6▼	L5391-51	9650M	100000	9.300G-10.000G	10m	44000	13.5	55		TWT§	AM		WA	29
7	M5391	9700M	.01	7.000G - 12.40G	CW	1200	.003	30	20	TWT§	AM		CO	
8	L2338	9700M	1.0	7.000G-12.40G	CW	2500	20m	35	18	TWT§	AM		CO	2.5
9	L2345	9700M	1.0	7.000G-12.40G	CW	2500	20m	30	30	TWT§	AM		CO	2.5
10	L2383	9700M	1.0	7.00G-12.40G	CW	2.5k	15m	30	30	TWT§	AM		CO	3.0
11	M4273	9700M	1.0 †	7.000G - 12.40G	CW	2500	.02	30†		TWT†	AM		CO	
12	757H	9700M	1.25 †	7.40G-12.0G	40m	10500	1.7 Ø	50		TWT§*	AM		CO	5.0
13	QKW1389	9700M	100	7.400G-12.000G	40m	11k	1.8	10		TWT	AM		CO	
14	L5157	9.700G	150	9.450G-9.950G	140m	6.000k	500m	35		TWT§	AM		CO	3.0
15▼	790H	9700M	1000	9.600G-9.800G	200m	10000	800m	50		TWT	AM		WA	13
16	L5563	9700M	2000	9.50G-9.90G	40m	11.5k	1.7	53	40	TWT§	AM		CO	6.0
17	M2105R	9750M	.005	7.500G - 12.00G	CW	1300	1.5m	25	12	TWT*§	AML		WA	
18	M2105S	9750M	.01	7.500G - 12.00G	CW	1300	1.75m	30	15	TWT*§	AML		WA	
19#	W3MT-4A	9.750G	10m*	7.500G-12.000G	CW	1.3k	4.0m	33Ø	15*	TWT†	AM		CO	12
20	L5398	9750M	1250	7.500G-12.000G	20m	11400	2.25	50		TWT§	AM		CO	4.0
21▼	L5571	9750M	4000	9.500G-10.000G	40m	11400	1.7	60		TWT§	AM		WA	5.0
22▼	L5581	9750M	8000	9.600G-9.900G	20m	14700	2.5	57		TWT§	AM		WA	7.0
23	VTX5680A1	9750M	45000	9500M-10000M	2.0m	30000	6.0	50		TWT§	AM		WA	14
24	L5253	9.750G	50k	9.500G-10.000G	2.0m	32k	7.0	50		TWT§	AM		WA	17.0
25▼	L5391-52	9750M	100000	9.600G-9.900G	10m	42000	13.0	63		TWT§	AM		WA	32
26	M2201BA	9800M	.01	8.000G - 12.40G	CW	1300	.003	30	30	TWT*	AM		CO	
27	M2201BB	9800M	.01	8.000G - 12.40G	CW	1300	.003	30	30	TWT*	AM		CO	
28	QKW1652	9800M	2500		10m	10800	1.7	57		TWT	AM		CO	3.0
29▼	L5586	9950M	5000	9.800G-10.100G	40m	12400	1.8	55		TWT§	AM		WA	6.0
30	WJ276	10000M	.0003 †	8.000G - 12.00G	CW	115 Δ⍁§		25†	8.5*	TWT†	AML		CO	17 Δ
31	WJ287	10000M	.0003 †	8.000G - 12.00G	CW	115 Δ⍁§		35†	10*	TWT†	AML		CO	17 Δ
32	WJ345	10000M	.32m	8.000G - 12.00G	CW	115 Δ§		25†	7.0*	TWT†	AML		WA	20 Δ
33	WJ377	10000M	.003 †	8.000G - 12.00G	CW	115 Δ⍁§		25†	9.0*	TWT†	AML		CO	17
34	7394	10000M	.005 †	8.000G - 12.00G	CW	850	1.0m	25†	10*	TWT†	AML		WA	11.5
35	VTX4415P2	10G	5.0m†	8.0G-12G	CW	§		25†	8.5*	TWT§	AML		CO	7.0
36	WJ297	10000M	.005 †	8.000G - 12.00G	CW	115 Δ⍁§		25†	10*	TWT†	AML		CO	4.5 Δ
37	WJ408	10G	5.5m†	8.0G-12G	CW	115 §Δ⍁		25†	9.5*	TWT†	AML		CO	14.5 Δ
38	WJ460	10000M	.0055 †	8.000G - 12.00G	CW	28 §Ø		25†	10*	TWT§	AML		CO	6.0 Δ
39	VTX4380P5	10.0G	10m	8.000G-12.00G		115 ⍁Δ§		25	10	TWT§	AML		CO	5.0
40	VTX4380P6	10.0G	10m	8.000G-12.00G		115 ⍁Δ§		40	10	TWT§	AML		CO	5.5
41	WJ332-1	10000M	.01 †	8.000G - 12.00G	CW	115 Δ⍁§		35†	12*	TWT†	AML		CO	17 Δ
42	WJ464	10000M	.01 †	8.000G - 12.00G	CW	115 §Δ⍁		40†	10*	TWT§	AML		CO	4.0 Δ
43	WJ424	10000M	.019	8.000G - 12.00G		115 §Δ		30	7.0	TWT§	AM		CO	6.5 Δ
44	VTX4415P3	10000M	25m	8.00G-12.00G		115 §Δ⍁		33	7.5	TWT§	AML		CO	6.5
45	WJ363	10000M	.04	8.000G - 12.00G	CW	115 Δ⍁§		35	8.0	TWT†	AML		CO	18 Δ
46	L2363	10000M	50m	8.00G-12.00G	CW	1.1k	2.0m	60	18	TWT§	AM		CO	2.0
47	MA2046	10000M	100m*	8.00G-12.00G	100m	1.5kØ	10m			TWT§	AM		CO	630m
48	VTX4381H1	10.0G	100m	8.000G-12.00G		115 ⍁Δ§		35	17	TWT§	AML		CO	5.0
49	WJ3005	10000M	100m†	8.00G-12.0G	CW	115 §Δ⍁		35	9.0	TWT	AML		CO	20 Δ
50	EM1045	10000M	1.0 †	8.000G - 12.00G	CW	3000	.025	60	30	TWT†	AM		CO	4.5 *
51	L5008	10000M	2.0 †	8.000G - 12.00G	CW	2100	.04	36	30	TWT§	AM		CO	1.02
52	M2404I	10000M	2.0	8.000G - 12.40G	CW	3600	.06	30	35	TWT*	AM		CO	
53	EM1050	10000M	3.0 †	8.000G - 12.00G	CW	3500	.03	60	30	TWT†	AM		CO	4.5 *
54▼#	TH20101	10000M	4.0 †	8.000G-12.000G	CW			40†	28*	TWT	AM		CO	
55	771HS	10000M	10	6.50G-13.50G	CW	3.4k	45m	30		TWT	AM	FF	CO	3.0
56♦	1177H07F	10000M	10	6.50G-13.5G	CW	120 §*Δ		30†	35*	TWT§	AM		CO	20 Δ
57	F2094	10000M	10 †	8.000G - 12.00G	CW	3800	.01	40	33	TWT	AM		CO	2.5 Δ
58	783H	10000M	20	8.00G-12.4G	CW		50m	30		TWT	AM	FF	CO	3.0
59	STX52201	10000M	100 †	8000M-12000M	CW	8.7k	220m	30†		TWT§	AM		WA	6.0 Δ
60#	N1075	10.0G	125	8.0G-12.0G	CW	3250	100uΔ	35		TWT§	AM		CO	6.0 *
61	STX5225	10G	200	7.0G-13G	CW	9.1k	255m	55*	40*	TWT			CO	7.0 Δ
62	STX52221	10.000G	200	9.800G-10.300G	CW	9.000k	250m	45	40	TWT§	AM		WA	7.0
63	STX52251	10000M	200 †	7.00G-13.00G	CW	9200	275m	38†	40*	TWT§	AM		CO	7.0 Δ
64	QKW1542	10000M	300	9.000G-11.000G	20m	12k	2.0	40		TWT	AM		CO	6.0
65	STX5225-1	10G	300 Δ	7.0G-13G	CW	9.5k	290m	60*		TWT			CO	7.0 Δ
66	STX54401	10000M	400	8.00G-12.00G	CW	10.4k	340m	42†		TWT*†	AM		WA	12
67	L5546	10000M	1000	8.00G-12.00G	50m	10.5k	1.5	35	40	TWT§	AM		CO	6.0
68	VTX5180A1	10.0G	1.0k	8.000G-12.00G	.02	10.5k	1.5 Ø	40		TWT*§	AM			5.0
69▼	776H	10125M	600	10.050G-10.200G	CW	11700	250m	45		TWT	AM		WA	9.0
70	VTX4481P5	10.2G		8.000G-12.40G				20	15	TWT§	AML		CO	8.0
71	VTX4481H1	10.2G	3.0m	8.000G-12.40G		115 ⍁Δ§		35	17	TWT§	AML		CO	8.0
72	L2329	10200M	10m	8.000G-12.40G				30	30	TWT§			CO	
73	M2201B	10200M	.01	8.000G - 12.40G	CW	1300	.003	30	30	TWT*	AM		CO	
74	M5519	10200M	.01	8.000G - 12.40G	CW	1220 §	.001	35	10	TWT§	AML		CO	
75▼	WJ3503	10200M	1.0 †	8.000G-12.400G	CW	2500	25m	30†	30*	TWT§*	AM		CO	1.75
76	M2404P	10200M	2.0	8.000G - 12.40G	CW	3600	.06	30	35	TWT*	AM		CO	
77♦	VTX6084A1	10200M	2.0 †	8.000G-12.400G	CW	2450	25m	30†	30*	TWT§*	AM		CO	1.0
78♦	VTX6084H1	10200M	2.0 †	8.000G-12.400G	CW	2450	25m	60†	30*	TWT§*	AM		CO	1.25
79	VZX6084C1	10.2G	2.0	8.000G-12.40G		115 ⍁§				TWT	AM			
80	VZX6084D1	10.2G	2.0	8.000G-12.40G		28 Ø§				TWT	AM			
81	WJ3805	10200M	3.0 †	8.00G-12.4G	CW	3200	30m	45	20	TWT§*			CO	2.0 Δ
82	1235H	10200M	4.0 †	8.00G-12.40G	CW	115 §⍁		33†	35*	TWT§	AM		CO	18.5 ⍁
83♦#	F4185	10200M	4.0 †	8.000G-12.400G	CW	2.7k	25mØ	40†	28	TWT	AM		CO	1.43
84	771H	10200M	10	8.00G-12.40G	CW	3600	50m	30†		TWT	AM	FF	CO	3.0 Δ
85	771HD	10200M	10 †	8.00G-12.40G	CW	3400	50m	30†	35*	TWT§	AM		CO	3.0
86♦	1177H03F	10200M	10	8.00G-12.4G	CW	120 §*Δ		30†	35*	TWT§	AM		CO	20 Δ
87▼	L5576	10200M	10	8.000G-12.400G	CW	3700	80m	35		TWT§	AM		CO	3.0
88♦	VTX6089H3	10200M	10 †	8.000G-12.400G	CW	3600	90m	40†	30*	TWT§*	AM		CO	3.0
89	VZX6980E1	10.2G	10	8.000G-12.40G		115 Δ§				TWT	AM			
90	1277H03F	10200M	20	8.00G-12.4G	CW	120 §Ø		30†	35*	TWT§	AM		WA	20 Δ⍁
91	L5558	10200M	20	8.00G-12.40G	CW	3.8k	80m	35	35	TWT§	AM		CO	3.0
92	M5793	10200M	20 †	8.00G-12.4G	CW	3400	100m	33†	35*	TWT§	AM		CO	3.0 Δ
93	VTX6180A1	10200M	20 †	8.000G - 12.40G	CW	3300	.095	35†	35†	TWT§	AM		CO	2.75
94	VTX6180B1	10200M	20 †	8.000G - 12.40G	CW	3300	.095	35†	35†	TWT§	AM		CO	2.75
95	VTX6180H1	10200M	20 †	8.000G - 12.40G	CW	3300	.095	54†	35†	TWT§	AM		CO	3.0
96	VTX6180J1	10200M	20 †	8.000G - 12.40G	CW	3300	.095	54†	35†	TWT§	AM		CO	3.0
97	VZX6981E1	10.2G	20	8.000G-12.40G		115 Δ§				TWT	AM			
98	M5613K	10200M	100 †	8.00G-12.4G	CW	6800	220m	30†	35*	TWT§	AM		CO	7.5 Δ
99	M5808K	10200M	100 †	8.00G-12.4G	CW	6800	220m	30†	35*	TWT§	AM		CO	7.5 Δ
100	VTX6280C1	10200M	100 †	8.000G - 12.40G	CW	4950	.225	30†	35	TWT§	AM			5.0
101	VTX6280J1	10200M	100 †	8.000G - 12.40G	CW	4950	.225	50†	40	TWT§	AM			5.5
102	VZX6982E1	10.2G	100	8.000G-12.40G		115 Δ§				TWT	AM			
103	M5806K	10200M	200 †	8.00G-12.4G	CW	9200	300m	30†	35*	TWT§	AM		WA	7.5 Δ
104	M5807K	10200M	200 †	8.00G-12.4G	CW	9200	300m	30†	35*	TWT§	AM		WA	7.5 Δ
105	STX52211	10.200G	200	8.000G-12.400G	CW	9.200k	250m	40	40	TWT§	AM		WA	7.0
106	STX52280	10200M	200	8.00G-12.40G	CW	9.3k	250m	40†		TWT§	AM		WA	8.0
107	STX54400	10200M	400 †	8.00G-12.40G	CW	10400	350m	36†		TWT§	AM		WA	12 Δ
108▼	L5588	10200M	2000	9.900G-10.500G	50m	9000	1.3	60		TWT§	AM		CO	6.0
109	F2087	10300M	15	8.200G - 12.40G	CW	3200	.07	65	40	TWT§	AM		CO	
110	EM1056	10300M	20	8.200G - 12.40G	CW	3400	.08	65		TWT§				

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	VTX6181H1	10300M	20	8.20G-12.40G		3.4k	80m	60		TWT§	AM		CO	3.0
2	STX52252	10.3G	100	8.2G-12.4G	CW	9.1k	255m	50†		TWT			CO	7.0 △
3	M2204AG	10375M	.01	10.25G - 10.50G	CW	1300	.003	20	30	TWT*	SER		CO	
4▼	L5391-54	10450M	90000	10.000G-10.900G	10m	41700	13.2	46		TWT§	AM		WA	32.5
5	VTX4481P6	10.5G	120m	8.050G-12.70G				30		TWT§	AML		CO	8.0
6	VTX6383A1	10500M	11000	10.25G-10.75G	CW	20000	3.5	53		TWT#	AM		WA	30
7#	LD4107	10600M	6.0	10.50G-10.70G	CW	21 §Ø		38		TWT§	AM		WA	11
8	L5339	11000M	1.0	8.000G-14.000G	CW	2100	40m	34		TWT§	AM		CO	1.2
9	L5322	11000M	2.0	8.000G-14.00G	CW	2100	40m	65		TWT§	AM		CO	1.5
10	STX52270	11000M	125 †	8.000G-14.000G	CW	9400	300m	35†	40	TWT§	AM	MT	CO	7.0 △
11	L5337	11000M	1000	8.000G-14.00G	20m	11200	1.8	45		TWT§	AM		CO	6.0
12	L5405	11000M	1000	8.000G-14.00G	20m	11200	1.8	45		TWT§	AM		CO	6.0
13#	VTX2622A1	11150M	6.0	10.6G-11.7G	CW	4300	22m	35		TWT§	AM		WA	9.6 *
14#	11W72	11200M	10	10.70G-11.70G	CW	4000	28m	34	23	TWT§	AM		WA	5.0
15#	LD910	11200M	10	10.70G - 11.70G	CW	4400	.035	40	26	TWT§	AM		WA	7.8
16#	VTX2612A1	11200M	10	10.70G-11.70G	CW	1900	30m	40†	25.5	TWT§	AM		WA	6.7
17#	11W71	11200M	12	10.70G - 11.70G	CW	4200	.030	38	24	TWT§	AM		WA	8.2
18#	LD914	11200M	12	10.70G - 11.70G	CW	4500	.035	44	26	TWT§	AM		WA	
19#	VTX2612B1	11200M	12	10.7G-11.7G	CW	4400	30m	42.1	25.5	TWT§	AM		WA	7.8 *
20#	W3MC-3B	11.200G	15 *	10.700G-11.700G	CW	4.5k	45m	40†	28*	TWT§	AM		WA	17
21#	W3MC-3C	11.200G	15 *	10.700G-11.700G	CW	4.5k	45m	40†	28*	TWT§	AM		WA	17
22	W3MC/3A	11200M	17 *	10.70G - 11.70G	CW	4600	.036	40†	28*	TWT§	AM		WA	11 *
23▼#	TH3541	11200M	20 †	10.700G-11.700G	CW			40	27*	TWT§	AM		WA	
24#	YH1191	11200M	20	10.70G-11.70G		3600	2.7m	40	25	TWT*	AM		CO	
25#	LD4061	11200M	24	10700M-11700M	CW	4500	53m	47	27	TWT§	AM		WA	3.5
26♦#	TH3525	11325M	20 †	10.950G-11.700G	CW	3.7k	35mØ	55†	27	TWT	AM		CO	1.54
27♦#	TOP1369	11325M	20 †	10.950G-11.700G	CW	3.8k	40mØ	55†	26	TWT	AM		CO	1.54
28#	N1065	11.45G	35 †	10.5G-12.4G	CW	3200	1.5m△	42		TWT§	AM		CO	5.75 *
29▼	280H	11500M	10	11.000G-12.000G	CW	3000	28m	40		TWT	AM		CO	1.38
30#	W3-5G	11500M	10	10.7G-13.25G	CW	4600	40m	45†	27*	TWT§	AM		WA	15 *
31	M5333	11500M	35 †	10.5G-12.5G	CW	4400	120m	35†	35*	TWT§	AM		CO	3.0 △
32	785H01	11700M	10	7.40G-16.00G	CW	3400	45m	30		TWT§	AM		CO	3.0
33♦	1177H03F003	11700M	10 †	7.40G-16.0G	CW	120 §*△		30†	35*	TWT	AM		BB	30 △⧄
34#	LD850	11700M	12	10.70G - 12.70G	CW	4300	.03	43	26	TWT§	AM		WA	
35#	VTM2616A1	11700M	12	10.7G-12.7G	CW	4300	28m	43	25	TWT§	AM		WA	6.0 *
36#	YH1193	11700M	22	10.70G-12.70G	CW	3300	51m	40		TWT	AM		CO	2.4
37	L5521	11750M	1000	7.50G-16.00G	40m	11400	1.60	60		TWT§	AM		CO	5.5
38	MA2047	11800M	250m*	7.60G-16.00G	100m	2.3kØ	15m			TWT§*	AM		CO	630m
39	QKW1668	11800M	60	7.600G-16.000G	40m	11k	2.0	50		TWT	AM		CO	5.5
40	QKW1751	11800M	2000	7.60G-16.00G	40m	11000	2.0	50		TWT	AM		CO	6.0
41#	W3/2G	11950M	12 *	10.70G - 13.20G	CW	4000	.035	40†	30*	TWT*	AM		WA	
42#	RW1120C	11950M	20	10.70G-13.20G	CW	3500	75m	45	23	TWT§	AM		WA	8.6 *
43▼#	RW1121	11950M	20	10.700G-13.200G		2700	70m	38†	26	TWT	AM		WA	
44♦#	TH3528	11950M	20 †	11.700G-12.200G	CW	3.8k	35mØ	55†	27	TWT	AM		CO	1.54
45♦#	TH3529	11950M	20 †	11.700G-12.200G	CW	3.8k	40mØ	55†	26	TWT	AM		CO	1.54
46#	N1093	11950M	30	10.70G-13.20G	CW	5.0k	70m	43	25	TWT	AM		WA	8.5
47	STU61000	11950M	1.0k	7.90G-16.00G	100m	12k	1.1	35		TWT§	AM		WA	6.0
48#	N1095	11980M	16	10.70G-13.25G	CW	5.0k	70m	40†	25	TWT	AM		WA	8.5
49▼#	TH3536	11980M	20 †	11.530G-12.130G	CW	3800	40m	55†		TWT	AM		CO	1.55
50	VTM4486H1	12.0G		8.000G-16.00G		115 ⧄△§		35	17	TWT§	AML		CO	8.0
51	L2375	12000M	10m	8.00G-16.00G	CW	1.6k	2.0m	36	12	TWT§	AM		CO	2.0
52	VTM4386A1	12.0G	10m	8.000G-16.00G		115 ⧄△§		40	11	TWT§	AML		CO	5.5
53	M9220M	12000M	32m†	7.00G-17.00G	CW	115 §△⧄		35†	14*	TWT§	AM		CO	4.0 △
54	L2365	12000M	40m	8.0G-16G	CW	1.7k	2.0	35	25	TWT	AM		CO	2.0
55	M9351	12000M	50m†	8.00G-16.0G	CW	115 §△⧄		40†	13*	TWT§	AM		CO	4.0 △
56	VTM4386H1	12.0G	50m	8.000G-12.00G		115 ⧄△§		35	17	TWT§	AML		CO	5.0
57	L2364	12000M	1.0	8.0G-16G	CW	3.3k	15	35	25	TWT	AM		CO	2.5
58	L2384	12000M	1.0	8.00G-16.00G	CW	3.0k	15m	30	30	TWT§	AM		CO	3.0
59	M9243B	12000M	1.0 †	8.00G-16.00G	CW	115 §△⧄		50†	19*	TWT§	AM		CO	3.75 △
60▼	WJ3504	12000M	1.0 †	8.000G-16.000G	CW	3000	25m	30†	30*	TWT§*	AM		CO	1.75
61	774H	12000M	1.25 †	8.00G-16.00G	40m	11000	1.7 Ø	50		TWT#*	AM		CO	5.0
62#	N1082	12000M	2.0	8.00G-16.0G	CW	2500	20m	36†		TWT§	AM		CO	2.0
63	WJ3806	12000M	3.0 †	8.00G-16.0G	CW	3100	30m	40	22	TWT§*			CO	2.0 △
64▼	L5577	12000M	10	8.000G-16.000G	CW	3300	68m	30		TWT§	AM		CO	2.0
65	M5916	12000M	27 †	8.00G-16.00G	CW	1625	11m	50†	32*	TWT§*	AM		CO	1.62 △
66	STX52272	12000M	100	8.00G-16.00G	CW	10.0k	330m	30†		TWT†	AM		WA	10
67	L5385	12000M	1000	8.000G-16.00G	20m	11500	2.0	65		TWT§	AM		CO	7.0
68	L5432	12000M	1.0k	8.000G-16.000G	40m	11400	2.3	50		TWT§	AM		CO	4.0
69	L5435	12000M	1.0k	8.000G-16.000G	20m	11400	2.0	60		TWT§	AM		CO	4.5
70	L5444	12000M	1.0k	8.000G-16.000G	40m	11400	2.3	57		TWT§	AM		CO	4.5
71	L5541	12000M	1000	7.50G-16.50G	20m	11.0k	1.7	63	40	TWT§	AM		CO	6.0
72	L5502	12025M	100	11.950G-12.100G	CW	9700	55m	40		TWT§	AM		WA	20
73▼	294H	12040M	100 †	11.950G-12.130G	CW	8400	63m	40†		TWT	AM		WA	19
74▼	284H	12050M	200	11.900G-12.200G	CW	8000	70m	36		TWT	AM		WA	28
75	L5394	12081M	200	12.038G-12.123G	CW	11300	71m	35		TWT§	AM		WA	25
76♦	1177H03F007	12100M	10 †	7.90G-16.3G	CW	120 §*△		30†	35*	TWT	AM		BB	30 △⧄
77#	YH1192B	12200M	4.0	11.70G-12.70G	CW	3400	51m	40		TWT	AM		CO	2.4
78#	W3MC-5A	12.200G	10 *	11.700G-12.700G	CW	4.6k	45m	38†	28*	TWT§	AM		WA	17
79#	YH1131	12200M	10	11.7G-12.7G	CW	3.8k	36m	38	30*	TWT	AM		WA	11
80#	YH1192A	12200M	20	11.70G-12.70G	CW	3400	51m	40		TWT	AM		CO	2.4
81#	YH1190	12200M	70	11.700G-12.700G	CW	6500	100mØ	40		TWT§	AM		WA	6.62
82	QKW1742	12300M	1500	7.60G-16.0G	20m	11000	1.7	50		TWT	AM		CO	6.0
83	837H	12500M	1.2	10.0G-15.0G	CW	1860 Ø	9.0mØ	45		TWT§	AM		WA	1.12
84	M5775K	12500M	100 †	8.50G-16.0G	CW	9000	200m	30†	35*	TWT§	AM		WA	7.5 △
85#	N1081	12500M	100 †	9.00G-16.0G	CW	7500	180m	33†		TWT§	AM		WA	5.5
86#	VTM2613A1	12700M	13	12.2G-13.25G	CW	4300	30m	42	25.5	TWT§	AM		WA	7.8 *
87#	LD929	12725M	10	12.200G-13.250G	CW	4400	35m	40	25	TWT§	AM		WA	7.8
88	WJ307-24	13000M	.0003 †	12.00G - 14.00G	CW	115 △⧄§		25†	8.0*	TWT†	AML		WA	18
89	WJ437	13000M	.002 †	8.000G - 18.00G	CW	115 §△⧄		25†	10†	TWT†	AML		CO	17 △
90	L2367	13000M	10m	8.00G-18.00G	CW	1.6k	2.0m	35	13	TWT§	AM		CO	2.0
91	M9220G	13000M	50m†	8.00G-18.0G	CW	115 §△⧄		30†	16*	TWT§	AM		CO	4.0 △
92	M9220H	13000M	50m†	8.00G-18.0G	CW	115 §△⧄		50†	15*	TWT§	AM		CO	4.0 △
93	L2374	13000M	1.0	8.00G-18.00G	CW	3.0k	15m	30	25	TWT§	AM		CO	2.5
94	M9350	13000M	1.0 †	8.00G-18.0G	CW	115 §⧄		40†	20*	TWT§	AM		CO	3.75 △
95	L5396	13000M	2.0	8.000G-18.00G	CW	3000	50m	35		TWT§	AM		CO	1.5
96	M5919	13000M	2.0	8.00G-18.00G	CW	3200	27m	45†	30*	TWT§*	AM		CO	2.0 △
97♦#	TH3513	13000M	2.0 †	12.700G-13.300G	CW	2.7k	25mØ	40†	28	TWT	AM		CO	1.43
98#	LD4170	13000M	6.0	12.70G-13.30G	CW	21 Ø	23m	40	26	TWT§	AM		WA	11
99#	W3MC-6A	13G	10 *	12.700G-13.250G	CW	4.6k	45m	38†	28*	TWT§	AM		WA	17
100	STU54302	13000M	100	9.00G-17.0G	CW	9.6k	270m	40		TWT§*	AM		WA	7.0
101	L5495	13000M	1250	8.00G-18.00G	20m	11200	1.65	50		TWT§	AM		WA	5.5
102	VTU6391A1	13.0G	2.0k	12.75G-13.25G		13k	1.0	34		TWTØ	AM		WA	19 *
103#	VTM2615A1	13100M	10	12.2G-14G	CW	4200	30m	41.5	26	TWT§	AM		WA	6.0 *
104#	LD845	13100M	11	12.20G - 14.00G	CW	4300	.033	43	26	TWT§	AM		WA	
105	1277H04F001	13200M	28	13.15G-13.25G				37		TWT	AM	FF	WA	20
106▼	295H	13500M	20	13.400G-13.600G	CW	3500	42m	45		TWT	AM		WA	2.2
107#	LY100	13500M	1200	13.00G - 14.00G	CW	26000	.70	30		TWTØ	AM	VT	WA	
108	M9220A	14000M	20m†	12.0G-18.0G	CW	115 §△⧄		35†	12*	TWT§	AM		CO	4.0 △
109♦	1218H	14000M	1.5	13.50G-14.50G	CW			40		TWT	AM	FF	WA	6.0
110	848HS	14250M	10	10.50G-18.00G	CW		50m	30		TWT	AM	FF	CO	3.0

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	STU54314	14250M	300	13.90G-14.60G	CW	11.2k	270m	42		TWT§	AM		WA	8.0
2	VTU4390H1	14.3G	10m	10.70G-18.00G		115 ⍁Δ§		40	13	TWT§	AML		CO	5.5
3	VTU4390P3	14.3G	10m	10.70G-18.00G		115 ⍁Δ§		25	12	TWT§	AML		CO	5.0
4	L2376	14500M	5.0m	11.00G-18.00G	CW	1.6k	2.0m	37	13	TWT§	AM		CO	2.0
5	M9220C	14500M	5.0m†	11.0G-18.0G	CW	115 §Δ⍁		35†	13*	TWT§	AM		CO	4.0 Δ
6♦#	F4156	14500M	60m†	11.000G-18.000G	CW	1.5k	3.0mØ	35†	14	TWT	AM		CO	2.20
7	848H	14800M	10	12.40G-18.00G		3.4k	50m	30		TWT	AM	FF	CO	3.0
8▼	288H	14800M	16	14.300G-15.300G	CW	3450	42mØ	46	30	TWT§	AM		WA	2.37
9#	15W71	14825M	5.0	14.40G-15.25G	CW	3.6k	20	33	25	TWT§	AM		WA	3.8
10#	VTU2614A1	14825M	6.5	14.4G-15.25G	CW	4100	22m	37	26	TWT§	AM		WA	6.0 *
11	WJ307	15000M	.0003 †	12.00G - 18.00G	CW	115 Δ⍁§		25†	10*	TWT†	AML		CO	18 Δ
12♦#	TWJ33	15000M	1.6m†	12.000G-18.000G				30†	13.5*	TWT	AML	BB	WA	
13	M2114H	15000M	.002	12.00G - 18.00G	CW	1300	1.5m	25	14	TWT*§	AML		WA	
14	M2114I	15000M	.005	12.00G - 18.00G	CW	1300	1.75m	30	17	TWT*§	AML		WA	
15#	M5364	15G	5.0m	12G-18G	CW	1.45k	1.5m	25	13	TWT§	AM		WC	
16	WJ342	15000M	.005 †	12.00G - 18.00G	CW	115 Δ⍁§		25†	12*	TWT†	AML		CO	5.0 Δ
17	WJ461	15000M	.0055 †	12.00G - 18.00G	CW	28 §Ø		25†	12*	TWT§	AM		WA	6.5 Δ
18	VTU4390P1	15.0G	10m	12.00G-18.00G		115 ⍁Δ§		25	11	TWT§	AML		CO	5.0
19	VTU4390P2	15.0G	10m	12.00G-18.00G		115 ⍁Δ§		40	12	TWT§	AML		CO	5.5
20	VTU4490H1	15.0G	10m	12.00G-18.00G		115 ⍁Δ§		35	11	TWT§	AML		WA	7.25
21	VTU4490H5	15.0G	10m	10.70G-18.00G				35	11	TWT§	AML		WA	7.25
22	WJ425	15000M	.01 †	12.00G - 18.00G	CW	115 Δ⍁§		25†	10*	TWT†	AML		WA	6.5
23	VTU4490P1	15000M	16m	12.00G-18.00G		115 §Δ⍁		30	8.5	TWT§	AML		WA	6.5
24	WJ371	15000M	16m	12.000G-18.000G	CW	125		25	8.0	TWT†	AML		CS	18 Δ
25#	W2MT1A	15000M	100m†	12.00G-18.00G	CW	1425	6.0m	33Ø	12	TWT†	AM		CO	15
26	WJ3006	15000M	100m†	12.00G-18.0G	CW	115 §Δ⍁		35	12	TWT	AM		CO	18 Δ
27	M5660C	15000M	1.0	10.0G-20.0G	CW	3400	20m	30	35	TWT	AM		CO	2.3
28	WJ3807	15000M	2.0 †	12.00G-18.00G	CW	3.0k	30m	41	23	TWT*§			CO	2.0 Δ
29	M5656	15000M	3.0	1.200G - 18.00G	CW	3400	.03	30	35	TWT	AM		WA	
30	WJ465-1	15000M	15	12.0G-18.0G	CW	115		45	10.5	TWT§	AM		WA	3.5 Δ
31	STU54300	15000M	75	12.400G-18.000G	CW	9200	300m	30	40	TWT	AM		CO	7.0
32	M5722K	15000M	100 †	12.0G-18.0G	CW	8000	180m	30†	35*	TWT§	AM		WA	7.5 Δ
33	M5723K	15000M	100 †	12.0G-18.0G	CW	8000	180m	30†	35*	TWT§	AM		WA	7.5 Δ
34	STU52271	15000M	100	14.500G-15.500G	CW	9200	300m	30	40	TWT	AM		CO	7.0
35	VA620A	15000M	100 †	12.00G - 18.00G	CW	6000	.20	35		TWT§	AM		CO	
36♦#	TWJ20	15000M	2.0M†	12.00G-18.00G		1400	1.0m	25†	15*	TWT§	AM	BB		
37	M5318	15.1G	1.0m	12G-18.2G	CW	1.3k	1.5m	25	14	TWT§	AM		WC	
38	M2405F	15200M	1.0	12.40G - 18.00G	CW	3300	.03	30	35	TWT*	AM		CO	
39▼	WJ3505	15200M	1.0 †	12.400G-18.000G	CW	3100	25m	30†	30*	TWT§*	AM		CO	1.75
40	L5227	15.200G	2.0	12.400G-18.000G	CW	3.200k	60m	40		TWT§	AM		CO	2.0
41▼#	TH20102	15200M	2.0 †	12.400G-18.000G	CW			40†	28*	TWT	AM		CO	
42♦#	TOP1226	15200M	2.0 †	12.400G-18.000G	CW	2.5k	20mØ	40†	30	TWT	AM		CO	1.43
43♦	VTU6090A1	15200M	2.0 †	12.400G-18.000G	CW	3000	20m	30†	30*	TWT§*	AM		CO	1.0
44♦	VTU6090H1	15200M	2.0 †	12.400G-18.000G	CW	3000	20m	60†	30*	TWT§*	AM		CO	1.25
45	VZU6090C1	15.2G	2.0	12.40G-18.00G		115 ⍁§				TWT	AM			
46	VZU6090D1	15.2G	2.0	12.40G-18.00G		28 Ø§				TWT	AM			
47	L5117	15200M	3.0	12.40G - 18.00G	.10	3600	10	60	30	TWT§*	AM		WA	2.0
48	1236H	15200M	5.0 †	12.40G-18.00G	CW	115 §⍁		37†	35*	TWT§	AM		CO	18.5 ⍁
49♦	848HD	15200M	10 †	12.40G-18.00G	CW	3400	50m	30†	35*	TWT§	AM		CO	3.0 Δ
50♦	1177H04F	15200M	10	12.4G-18.0G	CW	120 §*Δ		30†	35*	TWT§	AM		CO	20 Δ
51	VTU6091A1	15200M	10 †	12.40G-18.00G		4050	60m	30†	35*	TWT§	AM		WA	3.1
52	VTU6091H1	15200M	10 †	12.40G-18.00G		4050	60m	45†	35*	TWT§	AM		WA	3.6
53	VTU6190A1	15200M	10 †	12.40G - 18.00G	CW	3900	.05	30†	30	TWT§	AM		WA	2.5
54	VTU6190H1	15200M	10 †	12.40G - 18.00G	CW	3900	.05	45†	30	TWT§	AM		WA	3.0
55	VZU6990E1	15.2G	10	12.40G-18.00G		115 Δ§				TWT	AM			
56	1277H04F	15200M	20	12.4G-18.0G	CW	120 §Ø		30†	35*	TWT§	AM		WA	20 Δ⍁
57	VTU6290C1	15200M	50 †	12.40G - 18.00G	CW	6350	.20	30†	35	TWT§	AM			6.0
58	VZU6992C1	15.2G	50	12.40G-18.00G		115 ⍁§				TWT	AM			
59	STU54312	15200M	70	12.40G-18.00G	CW	9.2k	250m	33†		TWT†	AM		WA	7.0
60	VTU6290C2	15.2G	75	12.40G-18.00G		6.8k	190m	25		TWT§	AM		WA	5.0
61	VZU6992E1	15.2G	75	12.40G-18.00G		115 Δ§				TWT	AM			
62	STU52273	15200M	100	12.40G-18.00G	CW	9.6k	250m	33		TWT§	AM		WA	7.0
63	STU54313	15200M	200	12.40G-18.00G	CW	10.2k	270m	38		TWT§	AM		WA	8.0
64	VTU5390A1	15250M	1000 †Δ	14.50G - 16.00G	.005	11000	1.5	25†		TWT§*	AM		WA	3.0
65♦#	TWJ29	15250M	2.0M†	12.00G-18.50G				25†	15*	TWT§	AM	BB		
66♦#	TWJ30	15250M	2.0M†	12.00G-18.50G		1400	1.0m	30†	13.5*	TWT§	AM	BB		
67	817H	15500M	8000	15.30G - 15.80G	CW	20000	2.5	40		TWTØ	AM		WA	70 Δ
68	VTU5391A1	15750M	1000 †Δ	15.00G - 16.50G	.005	10500 Ø	.90 Ø	25†		TWT§	AM		WA	4.0
69	VTU6690A1	15.75G	8.0k	15.50G-16.00G		21k	2.4	35		TWTØ	AM			.25 §
70	VTU6390A1	16100M	1000	15000M-17200M	CW	12000	1.3	30		TWTØ#	AM		WA	19
71	835H	16150M	185k	15.9G-16.4G	10m	85k	13	48		TWT§#	AM		WA	30
72	838H	16200M	100k	16.0G-16.5G	5.0m	62k	7.8	53		TWT	AM	FF	WA	200
73	839H	16.250G	100k	16.000G-16.500G	5.0m	62k	7.8	50		TWT§	AM			19
74	830H	16450M	3.5k	16.2G-16.7G	45m	24k	1.5	40		TWT§#	AM		WA	14
75	QKW1514	16500M	175	15.670G-17.320G	140m	16k	800m	30		TWT	AM		WA	
76	832H	16.500G	1.0k	15.500G-17.500G	CW	14.5k	450m	30		TWTØ	AM		WA	65 Δ
77	L5412	16500M	1000	16.00G-17.00G	20m	10500	1.7	33		TWT§	AM		WA	4.0
78	L5411	16500M	2.0k	1.6000G-17.000G	10m	10300	1.3	65		TWT§	AM		WA	3.5
79#	TL16000	16500M	4500 Δ	16.00G-17.00G	45m	20000	1.45	37†		TWT	AM		WA	12
80	844H	16500M	5000	16.00G-17.00G	5.0m	24k	1.5	40		TWT	AM	FF	WA	12.5
81	820H	16500M	5.1k	16.0G-17.0G	12m	24k	1.7	45		TWT§#	AM		WA	15
82▼	866H	16700M	10000	15.700G-17.700G	500m	30000	3.5	33		TWT	AM		WA	80
83▼	861H	16750M	13500	16.500G-17.000G	25m	30500	2.1	47		TWT§#	AM	BB	WA	11.3
84♦	1277H04F002	17800M	28	17.75G-17.85G				37		TWT	AM	FF	WA	20
85▼	292H	19000M	4.0	17.000G-21.000G	CW	4500	17m	52		TWT	AM		WA	1.63
86	267H	19500M	3.0	17.00G-22.00G	CW	3900	14m	50		TWT	AM	FF	WA	1.2
87♦	1212H	19500M	3.0	17.00G-21.00G	CW			50		TWT	AM	FF	WA	6.5
88	268H	20000M	2.0 †	18.00G-22.00G	CW	3.9kØ	13mØ	42†		TWT§	AM	MT	WA	1.32
89	M5365	22000M	.005	18.00G - 26.00G	CW	2000	.001	25	13	TWT§	AML		WC	
90	WJ466	22000M	.01 †	18.00G - 26.50G	CW	115 Δ⍁§		35†	14*	TWT§	AML		WA	6.5
91▼	911H	22000M	1.0	18.000G-26.000G	CW	4000	17m	35		TWT	AM		WA	4.0
92	WJ393	22250M	.001 †	18.00G - 26.50G	CW	115 Δ⍁§		25†	13*	TWT†	AML		WA	18 Δ
93	M9345	22250M	10m†	18.0G-26.5G	CW	115 §⍁		40†	15*	TWT§	AM		WA	7.0 Δ
94#	M7895	27.50G	300	26.50G-28.50G	CW	16000	350m	33		TWTØ	AM		WA	22
95♦#	E3803	28000M	4.0	26.000G-30.000G	CW	3200	22m	27		TWT	AM		WA	35
96	254H	30000M	2.0	24.00G-36.00G	CW	5.5kØ	12mØ	40		TWT§	AM	MT	WA	1.39
97	M5366	33000M	.005	26.00G - 40.00G	CW	2800	.001	25	16	TWT§	AML		WC	
98▼	912H	33000M	1.0	26.000G-40.000G	CW	6000	13m	30		TWT	AM		WA	4.0
99	WJ338	33250M	.003 †	26.50G - 40.00G	CW	115 Δ⍁§		25†	14*	TWT†	AML		WA	25
100	M9346	33250M	3.98m†	26.5G-40.0G	CW	115 §⍁		40†	17*	TWT§	AM		WA	7.0 Δ
101▼	863H	37450M	2.0	36.800G-38.100G	CW	6000	13m	35		TWT	AM		WA	1.44
102	812H	53750M	150	49.50G-58.00G	CW	20k	120m	12		TWT	AM	FF	WA	17
103	813H	55000M	1000	54.50G-55.50G	CW	25k	400m	25		TWT	AM	FF	WA	50
104	819H	55000M	5000	54.50G-55.50G	CW	15k	900m	20		TWT	AM	FF	WA	60
105	814H	93000M	100	91.00G-96.00G	CW	15k	170m	25		TWT	AM	FF	WA	40

3. DUPLEXER TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)INCIDENT POWER (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 INCIDENT POWER (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. PULSE WIDTH (s)	RECO-VERY TIME (s)	MAX. VSWR	LEAKAGE		MAX. INSER-TION LOSS (dB)	DESCRIPTION			
									SPIKE (ergs)	FLAT (W)		1 TUBE TYPE	FEAT-URES	OUT PUT	LIFE (hr)
1▾#	BS806H	9170M	50 *	9.160G-9.180G	CW						500m		BP	WA	
2#	QF451M	9180M	1000 †	9.00G-9.30G*			4.0u*	1.4	80m*		800m			WA	
3♦#	1B35A	9300M	250000		1.0m	1.0u	10u	1.3					AT		
4#	QF451	9410M	1000 †	9.25G-9.55G*			4.0u*	1.4	80m*		800m			WA	
5	JAN6962	1285M	2.0M*	1.272G-1.298G	1.0m	4.4u		1.15			300m$	ATR			1.0k†
6	6962/BL665	1285M	2.0M	1.285G	1.0m	4.0u		1.3Ø				ATR			1.0k
7	BL640	1300M	2.0M	1.30G	2.0m	4.0u		1.3Ø				ATR			1.0k
8#	T347	1300M	2.0M	1.25G-1.35G			15u*	1.15			300m$	ATR			
9	1B44	2750M	20k†									ATR	BP	WA	
10▾	1B44/MSA12	2750M	750000	S Band	1.0m							ATR		BP	
11	JAN6024	2800M	20000 †	2.80G				1.15				ATR		WA	1.0k†
12	6024	2800M	750000	2.80G	1.0m	1.0u		1.3Ø				ATR		WA	1.0k
13#	6024/ATR387	2800M	750000 *	2.65G-2.95G				1.15			800m$	ATR			
14▾	6024/MSA20	2800M	750000	S Band	1.0m							ATR		BP	
15	BLA019	2800M	1.0M	2.80G	1.0m	1.0u		1.3Ø				ATR		WA	1.0k
16	1B56	2850M	20k†									ATR	BP	WA	
17▾	1B56/MSA11	2850M	750000	S Band	1.0m							ATR		BP	
18	5792	2950M	750000	2.95G	1.0m	1.0u		1.3Ø				ATR		WA	1.0k
19▾	5792/MSA16	2950M	750000	S Band	1.0m							ATR		BP	
20	BLA011	2950M	1.0M	2.95G	1.0m	1.0u		1.3Ø				ATR		WA	1.0k
21	8835	3000M				30u	20u					ATR		WA	15
22	8836	3000M	10k	2.90G-3.10G		33u	20u					ATR			
23#	T370	3050M	100000 *	2.95G-3.15G				1.15			800m$	ATR			
24	5793	3050M	750000	3.05G	1.0m	1.0u		1.3Ø				ATR		WA	1.0k
25▾	5793/MSA17	3050M	750000	S Band	1.0m							ATR		BP	
26	5921	3200M	750000	3.20G	1.0m	1.0u		1.3Ø				ATR		WA	1.0k
27▾	5921/MSA18	3200M	750000	S Band	1.0m							ATR		BP	
28	JAN5921	3312M	1.0M*	3.20G-3.425G	1.0m	1.1u		1.15			800m$	ATR		WA	1.0k†
29	5922	3400M	750000	3.40G	1.0m	1.0u		1.3Ø				ATR		WA	1.0k
30▾	5922/MSA19	3400M	750000	S Band	1.0m							ATR		BP	
31	JAN5922	3412M	1.0M*	3.400G-3.425G	1.0m	1.1u		1.15			800m$	ATR		WA	1.0k†
32▾	1B53/MSA15	3479M	750000	S Band	1.0m							ATR		BP	
33	BLA012	3500M	1.0M	3.50G	1.0m	1.0u		1.3Ø				ATR		WA	1.0k
34▾	1B52/MSA21	3625M	750000	S Band	1.0m							ATR		BP	
35	6022	5365M	1.0M	5.365G	1.0m	1.0u	60u	1.3Ø				ATR			1.0k
36▾	6022/MCA13	5365M	1000k	C Band	1.0m							ATR		BP	
37	6591	5400M	150000	5.40G	1.0m	1.0u	60u	1.3Ø				ATR			500
38▾	6591/MCA10	5400M	150000	C Band	1.0m							ATR		BP	
39	JAN6081	5640M	10000 †	5.64G	1.0m	1.0u		1.1			800m$	ATR			500 †
40	6081	5640M	300000	5.64G	1.0m	1.0u		1.3Ø				ATR			500
41#	6081/ATR408	5640M	300000 *	5.45G-5.83G				1.1			800m$	ATR			
42▾	6081/MCA11	5640M	300000	C Band	1.0m							ATR		BP	
43	6455	5640M	300000 *	5.34G-5.94G			25u*				800m$	ATR	BP	WA	
44▾	6455/MCA12	5640M	300000	C Band	1.0m							ATR		BP	
45▾	1B51/MCA14	6425M	200000	C Band	1.0m							ATR		BP	
46	1B37A	8750M	250000	8.75G	1.0m	1.0u	10u	1.3Ø				ATR		WA	1.0k
47	JAN1B37A	8750M	250000 *	8.75G	1.0m	1.0u	10u*	1.1			800m$	ATR		WA	500 †
48▾	1B37A/MXA19	8750M	250000	X Band	1.0m							ATR	BP	WA	
49	6034	8750M	250000	8.75G	1.0m	1.0u	8.0u	1.3Ø				ATR		WA	500
50	6369	8750M	250000	8.75G	1.0m	1.0u	8.0u	1.3Ø				ATR		WA	500
51	6631	8750M	250000 *	8.50G-9.00G							800m$	ATR	BP	WA	
52▾#	BS118	8775M	4000 †	X-Band	1.0m	1.0u§		1.1			800m$	ATR		WA	
53	5883	8800M	250000	8.80G	1.0m	1.0u		1.3Ø				ATR		WA	1.0k
54	6629	8800M	250000 *	8.65G-8.95G			8.0u*				800m$	ATR	BP	WA	
55▾#	BS248	9025M	4000 †	X-Band	CW			1.1			800m$	ATR		WA	
56	6163	9050M	250000	9.05G	1.0m	1.0u		1.3Ø				ATR		WA	500
57	JAN6163	9050M	250000 *	9.05G	1.0m	1.0u	10u*	1.15			800m$	ATR	BP	WA	500 †
58▾#	BS82	9080M	4000 †	X-Band	1.0m	1.0u§		1.1			800m$	ATR		WA	
59	JAN6162	9080M	250000 *	9.080M	1.0m	1.0u	10u*	1.1			800m$	ATR		WA	500 †
60	6162/ATR388	9080M	250000	9.08G	1.0m	1.0u	8.0u	1.3Ø				ATR		WA	500
61▾#	BS84	9240M	4000 †	X-Band	1.0m	1.0u§		1.1			800m$	ATR		WA	
62▾#	BS412	9300M	4000 †	X-Band	CW			1.1			800m$	ATR		WA	
63	6276	9300M	5.0k†	9.300G			10u*	1.10			800m	ATR		WA	1.0k
64	6393	9300M	5.0k†	9.00G-9.60G			8.0u*	12			800m	ATR		WA	
65	6890	9300M	30000 *	9.00G-9.60G			8.0u*				1.6 $	ATR	BP	WA	
66	6890/BL650	9300M	30000	9.30G	1.0m	1.0u	8.0u	1.3Ø				ATR		WA	500
67	JAN1B35A	9300M	250000 *	9.30G	1.0m	1.0u	10u*	1.1			800m$	ATR		WA	500 †
68▾	1B35A/MXA14	9300M	250000	X Band	1.0m							ATR	BP	WA	
69	6033	9300M	250000	9.30G	1.0m	1.0u	8.0u	1.3Ø				ATR		WA	500
70	6304	9300M	250000 *	9.00G-9.60G			8.0u*				800m$	ATR	BP	WA	
71	6304/BL43	9300M	250000	9.30G	1.0m	1.0u	8.0u	1.3Ø				ATR		WA	500
72#	6396	9300M	250000 *	9.00G-9.60G			8.0u*	1.1			1.6 $	ATR			
73	BLA009	9300M	250000	9.30G	1.0m	1.0u	10u	1.3Ø				ATR		WA	500
74▾#	BS116	9325M	4000 †	X-Band	1.0m	1.0u§		1.1			800m$	ATR		WA	
75▾#	BS92	9375M	4000 †	X-Band	1.0m	1.0u§		1.1			800m$	ATR		WA	
76▾#	BS310	9375M	4000 †	X-Band	CW			1.1			800m$	ATR		WA	
77	8481/BLT032	9375M	150000	9.375G	1.0m	5.0u	10u	1.3Ø				ATR		WA	500
78	5864/ATR321	9375M	200000	9.375G	1.0m	1.0u		1.3Ø				ATR		WA	1.0k
79	JAN5864	9375M	250000 *	9.375G	1.0m	1.0u	10u*	1.1			800m$	ATR		WA	1.0k†
80	6214	9375M	250000	9.375G	1.0m	1.0u		1.3Ø				ATR		WA	500
81	6630	9375M	250000 *	9.00G-9.60G			8.0u*				800m$	ATR	BP	WA	
82#	T343	9375M	250000 *	9.00G-9.60G			8.0u*	1.1			800m$	ATR			
83▾#	BS48	9410M	4000 †	X-Band	1.0m	1.0u§		1.1			800m$	ATR		WA	
84▾#	BS114	9600M	4000 †	X-Band	1.0m	1.0u§		1.1			800m$	ATR		WA	
85▾#	BS148	9850M	4000 †	X-Band	1.0m	1.0u§		1.1			800m$	ATR		WA	
86#	BS624A	1290M	2.0M	1.215G-1.365G	1.0m		12u*	1.3	1.0 *	200m*	500m	DPBA	BP	WA	
87#	BS624B	1290M	2.0M	1.215G-1.365G	1.0m		12u*	1.3	1.0 *	200m*	500m	DPBA	BP	WA	
88#	BS624C	1290M	2.0M	1.215G-1.365G	1.0m		12u*	1.3	1.0 *	200m*	500m	DPBA	BP	WA	
89#	BS624D	1290M	2.0M	1.215G-1.365G	1.0m		12u*	1.3	1.0 *	200m*	500m	DPBA	BP	WA	
90#	BS624E	1290M	2.0M	1.215G-1.365G	1.0m		12u*	1.3	1.0 *	200m*	500m	DPBA	BP	WA	
91#	BS624K	1290M	6.0M	1.215G-1.365G	1.6m		20u*	1.3	50 *	400 *	500m	DPBA	BP	WA	
92#	BS624L	1290M	6.0M	1.215G-1.365G	1.6m		20u*	1.3	50 *	400 *	500m	DPBA	BP	WA	
93#	BS624M	1290M	6.0M	1.215G-1.365G	1.6m		20u*	1.3	50 *	400 *	500m	DPBA	BP	WA	
94#	BS624N	1290M	6.0M	1.215G-1.365G	1.6m		20u*	1.3	50 *	400 *	500m	DPBA	BP	WA	
95#	BS624P	1290M	6.0M	1.215G-1.365G	1.6m		20u*	1.3	50 *	400 *	500m	DPBA	BP	WA	
96	BLP149D	1290M	50M	1.215G-1.365G	1.2m	100u	300u	1.3Ø	350m	100m	400mØ	DPBA		WA	500
97▾#	TV3215	2800M	8.0M*	2.750G-2.850G	2.0m		100u	1.25			400m	DPBA	BP	WA	
98#	BS608A	2900M	2.0M*	2.70G-3.10G	1.5m		20u*	1.25	100m*	20m*	400m	DPBA	BP	WA	
99#	BS608B	2900M	2.0M*	2.70G-3.10G	1.5m		20u*	1.25	100m*	20m*	400m	DPBA	BP	WA	
100♦	JANDOD0141	3000M	5.0M*	2.90G-3.10G	7.0m	33u	20u*	1.2			250m	DPBA#	Ø	WA	1.0k†
101▾#	TV3214	3000M	30M*	2.800G-3.200G	2.0m		100u	1.25			400m	DPBA	BP	WA	
102▾#	TV3212	3100M	5.0M*	2.900G-3.300G	2.0m		100u	1.25			400m	DPBA	BP	WA	
103#	BS630	5480M	1.0M*	5.25G-5.71G			15u*	1.3	250m*	50m*	700m	DPBA	BP	WA	
104#	BS616A	9250M	200000 *	8.50G-10.00G			2.0u*	1.4	50m*	20m*	800m	DPBA	BP	WA	
105#	BS616B	9250M	200000 *	8.50G-10.00G			2.0u*	1.4	50m*	20m*	800m	DPBA	BP	WA	
106	BLP017D	70500M	15000	69.50G-71.50G	2.0m	1.0u	1.0u	1.3Ø	50m	20m	1.5 Ø	DPBA		WA	500
107	BLP136D	70500M	15000	69.50G-71.50G	2.0m	1.0u	1.0u	1.3Ø	50m	20m	1.5 Ø	DPBA		WA	500
108	BL591	1290M	1.0M	1.25G-1.35G	3.0m	4.0u	35u	1.3Ø	250m	100m	1.0 Ø	DPBR		CO	500
109	BLP005D	1290M	2.0M	1.25G-1.35G	1.0m	4.0u	35u	1.3Ø	250m	100m	700mØ	DPBR		WA	500
110	BLP027D	24000M	40000	23.50G-24.50G	100u	20n	1.5u	1.3Ø			1.2 Ø	DPBR		WA	500

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. DUPLEXER TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)INCIDENT POWER (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 INCIDENT POWER (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. PULSE WIDTH (s)	RECOVERY TIME (s)	MAX. VSWR	LEAKAGE		MAX. INSERTION LOSS (dB)	DESCRIPTION			
									SPIKE (ergs)	FLAT (W)		1 TUBE TYPE	FEATURES	OUTPUT	LIFE (hr)
1	BLP215	24000M	55000	23.50G-24.50G	100u	20n	200n	1.3Ø	50m	50m	1.2 Ø	DPBR		WA	2.0k
2	6260	1285M	3.0M	1.285G	1.0m	4.0u	36u	1.3Ø		260	300mØ	PTR	CM		500
3	5939A	1286M	575000	1.286G	1.0m	4.6u	36u	1.3Ø		26m	600mØ	PTR	QR	WA	500
4	6605	1300M	2.0M*	1.25G-1.35G			45u*	1.4		50m*	400m	PTR		WA	
5	6605/BL96A	1300M	2.0M	1.25G-1.35G	2.0m	4.0u	15u	1.3Ø			400mØ	PTR	CM		500
6▼	6605/MLT23	1300M	2000k	1.250G-1.350G	1.0m							PTR		BP	
7▼	7152/MLT16B	1300M	2000k	1.250G-1.350G	1.0m							PTR	BP		1.0k
8#	7152	1300M	3.0M*	1.25G-1.35G			30u*					PTR			
9	JAN7152	1300M	3.0M*	1.25G-1.35G	2.0m	6.0u	30u*	1.5		500m*	300m	PTR	BP	WA	2.0k†
10	7152/BL612	1300M	3.0M	1.25G-1.35G	2.0m	6.0u	40u	1.3Ø		500m	300mØ	PTR	CM		2.0k
11▼#	AP433	1300M	3.0M†	1.200G-1.400G	1.0m		50u*				600m	PTR	BP	WA	
12▼#	F3027	1300M	3.0M†	1.200G-1.400G	1.0m		50u*				600m	PTR	BP	WA	
13▼#	AP623	1300M	8.0M†	1.200G-1.400G	750u		75u*				600m	PTR	BP	WA	
14▼#	F3023	1300M	8.0M†	1.200G-1.400G	750u		75u*				600m	PTR	BP	WA	
15#	T350	1680M	700000 *	1.66G-1.695G			36u*					PTR			
16▼	1B38/MST26	2800M	750000	2.690G-2.910G	1.0m							PTR			
17	1B38	2804M		2.804G				1.05				PTR		WA	
18▼	8622/MST52	3000M	300000	2.900G-3.100G	1.0m							PTR			
19#	BS710	3000M	2.0M*	2.00G-4.00G			10u*					PTR			
20#	BS702	3000M	2.5M	2.00G-4.00G		2.0u§	30u*				500m$	PTR			
21▼#	AP414	3065M	30k†	2.900G-3.230G	1.0m		40u*				900m	PTR		WA	
22▼#	F3004	3065M	30k†	2.900G-3.230G	1.0m		40u*				900m	PTR		WA	
23▼#	AP413	3065M	1.2M†	2.900G-3.230G	1.0m		90u*				400m	PTR	BP	WA	
24▼#	F3003	3065M	1.2M†	2.900G-3.230G	1.0m		90u*				400m	PTR	BP	WA	
25♦#	F3026	3080M	1.1M†	2.900G-3.260G	1.0m							PTR	BP	WA	
26♦#	F3022	3080M	4.5M†	2.900G-3.260G	1.0m		60u*				400m	PTR	BP	WA	
27♦#	F3010	3230M	500k†	2.910G-3.550G	1.0m							PTR	BP	WA	
28#	BS716	3275M	500000 *	2.60G-3.95G	1.0m		15u*	1.08	1.5k*	150 *	200m	PTR	PL	WA	
29	1B54	3550M	750000	3.40G-3.70G	1.0m	1.0u	15u	1.3Ø	2.5	1.5	200mØ	PTR	Ø	WA	500
30	JAN1B54	3550M	750000 *	3.40G-3.70G		1.0u	15u*	1.2	15k*		200m	PTR	BP	WA	500 †
31▼	1B54/MST27	3550M	750000	3.400G-3.700G	1.0m							PTR		BP	
32#	BS940	3750M	1.25M*	2.00G-5.50G	1.2m	2.5u	100u*				1.0	PTR	BPPL	WA	
33#	BS986	3750M	2.0M*	2.00G-5.50G	750u		150u*	1.2			1.0	PTR	BPPL	WA	
34	BL954	5575M	3.0M	5.395G-5.755G	1.5m	3.0u	10u	1.3Ø		100m	500mØ	PTR	Ø	WA	500
35▼#	BS220	5650M	250000	5.450G-5.850G			15u	1.25	4.0		500m	PTR	PS	WA	
36▼	MCT18	5650M	1000k	5.395G-5.905G	1.0m							PTR		BP	
37#	BS836	7000M	250000 *	2.00G-12.00G	1.0m		8.0u*					PTR	BPPL	WA	
38#	BS838	7000M	500000 *	2.00G-12.00G	1.0m		8.0u*					PTR	BPPL	WA	
39#	BS138	7000M	1.0M*	2.00G-12.00G	1.0m		25u*					PTR	BPPI	WA	
40#	BS834	7000M	2.5M*	2.00G-02.00G	1.2m	2.5u	25u*					PTR	BPPL	WA	
41#	BS880	7000M	3.0M*	2.00G-12.00G	1.0m	2.5u	25u*					PTR	BPPL	WA	
42	BLA013	16500M	75000	16.00G-17.00G	1.0m	200n	2.0u	1.3Ø			500mØ	PTR	Ø	WA	200
43	BLA007-1	16500M	150000	16.00G-17.00G	1.0m	3.0u	2.0u	1.3Ø			500mØ	PTR	Ø	WA	2.0k
44♦#	BS910	1300M	2.5M*	1.250G-1.350G	1.0m		20u*	2.0	1.0 *	200m*	500m	PTRD	BPPS	WA	
45♦#	BS912	1300M	5.0M*	1.250G-1.350G	2.0m		20u*	1.3	50 *	200m*	500m	PTRD	BPPS	WA	
46♦#	BS916	2900M	2.0M*	2.700G-3.100G	1.5m		20u*	1.25	100m*	20m*	400m	PTRD	BPPS	WA	
47♦#	BS990	3065M	1.3M*	2.900G-3.230G	1.5m		90u*			10	600m	PTRD	BPPS	WA	
48♦#	BS858	5480M	1.0M*	5.250G-5.710G			15u*	1.3	250m*	50m*	500m	PTRD	BPPS	WA	
49	BL982	5575M	40000	5.395G-5.755G	1.0m	1.0u	60u	1.3Ø		2.0m	500mØ	PTRD	Ø	WA	500
50▼	MCT12	5650M	500000	5.395G-5.905G	1.0m							PTRD	BP		
51#	BS180	5650M	1.0M	5.45G-5.85G			15u*	1.3			500m	PTRD		WA	
52▼#	BS224	5650M	1.0M	5.450G-5.850G			15u	1.3	250m		500m	PTRD	PS	WA	
53	BL962	9050M	250000	8.50G-9.60G	1.0m	1.0u		1.3Ø		25m	600mØ	PTRD	Ø	WA	500
54▼#	BS970	9250M	150000	8.500G-10.000G			2.0u	1.4	50m		800m	PTRD		WA	
55#	BS930	9250M	200000 *	8.50G-10.00G			2.0u*	1.4	50m*	20m*	800m	PTRD	BPPS	WA	
56	6650	24105	24000 *	23.63G-24.58G			4.0u*			25m*	1.7	TR	CMMT	WA	
57▼	MPT33	220M	60000		1.0m							TR	BPPL		
58#	BS708	300M	225000 *	100M-500M			300u*					TR	BPPL	CO	
59▼	MPT34	305M	15000	10M-600M	33m							TR		BP	
60▼	MPT35	305M	15000	10M-600M	33m							TR		BP	
61▼	MPT22	400M	15000	200M-600M	33m							TR		BP	
62▼	MPT29	400M	15000	200M-600M	33m							TR	BPPL		
63▼	7821/MPT12	400M	200000	200M-600M	50m							TR		BP	
64▼	MPT14	400M	200000	200M-600M	5.0m							TR	BPPL		
65▼	MPT21	400M	200000	200M-600M	5.0m							TR	BPPL		
66▼	MPT40	400M	3000k	200M-600M	1.6m							TR	BPCM		
67▼	MPT41	400M	3000k	200M-600M	1.6m							TR	BPCM		
68	BLT005B	411M	2.0M	408M-414M	20m	13u	150u			1.0	2.0 Ø	TR	CM	CC	1.0k
69	8313/BL995B	425M	500	420M-430M	1.8m	6.0u	50u			2.0	6.0 Ø	TR	CM	CC	1.0k
70	8312/BL960B	425M	10000	420M-430M	1.8m	6.0u	50u			2.0	6.0 Ø	TR	CM	CC	1.0k
71▼	MPT27	425M	20000	400M-450M	1.0m							TR		BP	
72	8470/BL994	425M	30000	420M-430M	1.6m	6.0u	150u			5.0	2.0 Ø	TR	CM	CC	1.0k
73▼	MPT45	425M	300000	350M-500M	1.6m							TR		BP	
74▼	MPT47	425M	300000	400M-450M	13m							TR	BPPL		
75▼	MPT18	425M	2000k	420M-430M	1.0m							TR		BP	
76▼	MPT20	425M	2000k	400M-450M	1.0m							TR	BPPL		
77	7902/BLT004A	425M	3.0M	420M-430M	1.6m	6.0u	150u			10	2.0 Ø	TR	CM	CC	500
78	7309/BL693	430M	2.0M	425M-435M	1.8m	6.0u	100u			40	2.0 Ø	TR	CM	CC	1.0k
79	8060/BLT041	445M	225000	444M-447M	16m	60u	480u			2.2	7.0 Ø	TR	CM	CC	500
80	8061/BLT059	447M	225000	445M-449M	16m	60u	480u			2.2	2.0 Ø	TR	CM	CC	500
81	JAN8313	450M	500 *	300M-600M	1.8m	6.0u	50u*			2.0 *	6.0	TR	CM	CC	1.0k†
82	JAN8312	450M	10000 *	300M-600M	1.8m	6.0u	50u*			2.0 *	6.0	TR	CM	CC	1.0k†
83▼	MPT15	450M	15000	300M-600M	8.0m							TR	BPPL		
84▼	7901/MPT13	450M	20000	300M-600M	2.0m							TR	BPPL		
85	JAN8470	450M	30000 *	300M-600M	1.8m	6.0u	150u*			5.0 *	2.0	TR	CM	CC	1.0k†
86▼	MPT15A	450M	30000	300M-600M	2.0m							TR	BPPL		
87▼	MPT37	450M	34000	300M-600M								TR	BPPL		
88▼	8313/MPT16	450M	500000	300M-600M	2.0u							TR	BPPL		
89▼	MPT16A	450M	500000	300M-600M	2.0u							TR	BPPL		
90▼	MPT28	450M	1000k	300M-600M	1.0m							TR	BPPL		
91▼	7300/MPT26	450M	2000k	300M-600M	2.5m							TR		BP	
92▼	7324/MPT11	450M	2000k	300M-600M	2.0m							TR	BPPL		
93▼	MPT25	450M	2000k	300M-600M	2.5m							TR	BPPL		
94	JAN7902	450M	3.0M*	300M-600M	1.8m	6.0u	150u*			10 *	2.0	TR	CM	CC	500 †
95▼	7902/MPT17	450M	3000k	300M-600M	1.6m							TR	BPPL		
96	8472/BLT055	455M	15000	445M-465M	8.0m	24u	150u			3.0	6.0 Ø	TR	CM	CC	500
97	BLT056	460M	75000	455M-465M	2.0m	6.0u	100u			40	2.0 Ø	TR	CM	CC	1.0k
98	BLT077	460M	1.0M	458M-462M	4.0m	13u	250u				2.7 Ø	TR	CM		500
99▼	MPT10	600M	2000k	575M-625M	2.0m							TR	CMMT		
100▼	MPT31	750M	2000k	600M-900M	2.0m							TR	CMMT		
101	JAN1B23	946M	10000	936.5M-955.5M							1.6	TR	CM	CC	500 †
102	1B23	950M	10000	950M	1.0m	4.0u		1.3Ø	500m	100m	1.6 Ø	TR	CM		500
103	BLT074	1280M	10000	1.21G-1.35G	5.0m	30u	20u	1.3Ø	350m	90m	350mØ	TR		WA	1.0k
104	6322/BL25	1280M	450000	1.21G-1.35G	1.0m	4.0u	25u	1.3Ø	250m	75m	800mØ	TR	CM	WA	500
105▼	7166/MLT10	1282M	2000k	1.200G-1.365G	1.0m							TR		BP	
106	6322	1285M	450000 *	1.215G-1.355G			25u*		350m*	90m*	800m	TR	CMMT	CC	
107	JAN6322	1285M	450000 *	1.215G-1.355G*Ø		4.0u	25u*		350m*	90m*	800m	TR	CMMT		500 †
108▼	6322/MLT11	1285M	450000	1.215G-1.355G	1.0m							TR	MTPL		
109▼	MPT42	1285M	450000	1.215G-1.355G	1.0m							TR		MT	
110	6632	1285M	2.0M*	1.215G-1.355G			45u*		400m*	75m*	700m	TR	CMMT	WA	

3. DUPLEXER TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)INCIDENT POWER (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 INCIDENT POWER (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. PULSE WIDTH (s)	RECOVERY TIME (s)	MAX. VSWR	LEAKAGE		MAX. INSERTION LOSS (dB)	DESCRIPTION			
									SPIKE (ergs)	FLAT (W)		1 TUBE TYPE	FEATURES	OUTPUT	LIFE (hr)
1▼	6632/MLT24	1285M	2000k	1.215G-1.355G	1.0m							TR	BPMT		
2	7166/BL933	1290M	2.0M	1.22G-1.36G	1.0m	4.0u	20u	1.3Ø		1.0	500mØ	TR	CM		1.0k
3	6633	1292M	2.0M*	1.220G-1.365G			45u*	1.4	400m*	75m*	700m	TR	BPCM	WA	
4▼	6633/MLT17	1292M	2000k	1.220G-1.365G	1.0m							TR		BP	
5#	7166	1292M	2.0M*	1.220G-1.365G			25u*					TR	BP		
6	JAN7166	1292M	2.0M*	1.220G-1.365G	1.0m	4.0u	20u*	1.3	250m*	75m*	500m	TR		WA	1.0k†
7	BTR647	1295M	50000	1.23G-1.36G	40m	70u	10u	1.3Ø		900m	400mØ	TR	CM		500
8#	BS876	1297M	10000 *	1.230G-1.365G			10u*	1.25	230 *		700m	TR	BPPS	CO	
9▼	7823/MLT13	1300M	50000	1.250G-1.350G	1.0m							TR	BPCP		
10	BTR633	1300M	50000	1.25G-1.35G	1.0m	4.0u	15u	1.3Ø		900m	300mØ	TR	CM		1.0k
11▼	MLT29	1300M	50000	1.250G-1.350G	1.0m							TR	BPCP		
12▼#	AR434C	1300M	60k†	1.200G-1.400G	1.0m		75u*				300m	TR	BP	WA	
13▼#	AR434E	1300M	60k†	1.200G-1.400G	1.0m		75u*				300m	TR	BP	WA	
14▼#	F3024	1300M	60k†	1.200G-1.400G	1.0m		75u*				300m	TR	BP	WA	
15▼#	F3025	1300M	60k†	1.200G-1.400G	1.0m		75u*				300m	TR	BP	WA	
16▼	MLT33	1300M	100000	1.250G-1.350G	1.0m							TR	BPCP		1.0k
17▼	MLT40	1300M	100000	1.250G-1.350G	1.0m							TR	BPCP	WA	
18▼	MLT47	1300M	200000	1.250G-1.350G	1.0m							TR		BP	
19▼	8272/MLT41	1300M	500000	1.250G-1.350G	1.0m							TR		BP⧄	
20	BTR632A	1300M	500000	1.25G-1.35G		6.0u	10u	1.3Ø		50m	500mØ	TR	CM		1.0k
21♦#	F3031	1300M	500k†	1.200G-1.400G								TR		WA	
22▼	MLT49	1300M	800000	1.250G-1.350G	1.0m							TR		BP	
23#	BS128	1300M	2.5M*	1.25G-1.35G			20u*	1.25	2.0 *	20m*	400m	TR	BPPS	WA	
24#	BS872	1302M	10000 *	1.240G-1.365G			20u*	1.25	7.0 *	1.0 *	300m	TR	BPPS	WA	
25#	BS870	1305M	2.5M*	1.24G-1.37G			20u*	1.25			400m	TR	BPPS	WA	
26	6635	2550M	4000 *	2.39G-2.71G			2.0u*		300m*	50m*	2.0	TR	CMMT	WA	
27▼	6635/MST18	2700M	5000	2.690G-2.710G	1.0m							TR		MT	
28▼	8099/MST38	2775M	100000	2.625G-2.925G	1.0m							TR		BP	
29	BTR136	2800M	50000	2.60G-3.00G	1.0m	1.0u	5.0u	1.3Ø	300m	25m	700mØ	TR	CM	CC	500
30	BTR583	2800M	50000	2.70G-2.90G	1.0m	1.0u	15u	1.3Ø	300m	50m	500mØ	TR	§	WA	500
31	1B27	2800M	100000	2.60G-3.00G	500u	500n	20u	1.3Ø	300m	25m	700mØ	TR	CM	CC	500
32	6637	2800M	100000 *	2.60G-3.00G			5.0u*			25m*		TR	CMMT	CC	
33▼	MST16	2800M	100000	2.700G-2.900G	1.0m							TR	MT	CO	
34▼	MST45	2800M	1200k	2.600G-3.000G	1.0m							TR		BP	
35#	BS324	2800M	1.25M*	2.70G-2.90G			25u*	1.2	250m*	100m*	1.0	TR	BP	WA	
36	6117	2802M	750	2.659G-2.969G			15u*	1.65	300m	40m	500m	TR	BP	WA	
37#	BS104	2805M	1.25M*	2.75G-2.86G			25u*	1.2	250m*	100m*	1.0	TR	BP	WA	
38	1B58A	2814M	750000	2.664G-2.964G	1.0m	1.0u	15u	1.3Ø	300m	40m	500mØ	TR	§	WA	500
39	JAN1B58A	2814M	750000	2.664G-2.964G	1.0m	1.0u	15u*	1.15	300m*	40m*	500m	TR	BP	WA	500 †
40▼	1B58A/MST12	2814M	750000	2.664G-2.964G	800u							TR		BP	
41▼	6117/MST11	2814M	750000	2.664G-2.964G	800u							TR	BP	WA	
42▼	MST48	2814M	750000	2.664G-2.964G	1.0m							TR		BP	
43#	BS58	2815M	500000 *	2.67G-2.96G			15u*	1.3	300m*	100m*	800m	TR	BP	WA	
44#	BS720	2835M	3.0 *	2.755G-2.915G			25u*					TR	BPPL		
45#	BS718	2835M	5000 *	2.755G-2.915G	1.25m		25u*	1.82	30 *	3.0 *	200m	TR	PLPS	WA	
46#	JF20	2900M	5000 †	2.70G-3.10G			15u*	1.25	6.0 *	600m*	500m	TR		WA	
47#	JF20D	2900M	5000 †	2.70G-3.10G			15u*	1.25	6.0 *	600m*	500m	TR		WA	
48#	BS904	2900M	10000 *	2.70G-3.10G			10u*	1.25	40 *		700m	TR	BPPS	CO	
49#	BS824	2900M	250000 *	2.70G-3.10G			15u*	1.25	6.0 *	900m*	400m	TR	BPPS	WA	
50#	BS832	2900M	250000 *	2.70G-3.10G			15u*	1.25	6.0 *	900m*	400m	TR	BPPS	WA	
51#	BS846	2900M	250000 *	2.70G-3.10G			15u*	1.25	6.0 *	900m*	400m	TR	BPPS	WA	
52	BTR641	2900M	750000	2.825G-2.975G	1.0m	1.0u	15u	1.3Ø	300m	60m	300mØ	TR	§	WA	500
53▼#	BS172	2950M	250000 *	2.700G-3.200G	CW		15u*	1.2	6.0	10 ⧄	400m	TR	BP	WA	
54#	BS848	2950M	250000 *	2.70G-3.20G			15u*	1.25	6.0 *	900m*	400m	TR	BPPS	WA	
55#	BS456	2950M	1.25M*	2.85G-3.05G			15u*	1.2	250m*	100m*	800m	TR	BP	WA	
56#	BS800	2970M	1.25M*	2.84G-3.10G			15u*	1.2	250m*	100m*	800m	TR	BP	WA	
57#	BS170	2975M	750000 *	2.825G-3.125G			15u*	1.3		70m*	1.0	TR	BP	WA	
58♦#	TV3304	2975M	750k†	2.825G-3.125G	1.0m		15u*				1.0	TR		WA	
59	JAN721B	3000M	100000 *	2.70G-3.30G			7.0u*					TR	CM	CC	750 †
60	BLT119	3000M	750000	2.90G-3.10G	1.0m	1.0u	30u	1.3Ø	300m	65m	700mØ	TR	§	WA	500
61#	BS390	3000M	1.25M*	2.925G-3.075G			25u*	1.33	250m*	100m*	1.0	TR	BP	WA	
62#	BS840	3000M	10M*	2.00G-4.00G			200u*					TR	BPPL		
63#	BS204	3025M	1.25M*	3.00G-3.05G			25u*	1.2	250m*	100m*	1.0	TR	BP	WA	
64▼	5866/MST15	3050M	4000	2.900G-3.200G	1.0m							TR	BPCP		
65♦#	TH2606	3050M	30k†	2.870G-3.230G	1.0m		15u*				400m	TR		WA	
66#	T356	3050M	60000 *	2.90G-3.20G			1.5u*					TR	BP		
67▼	1B27/MST13	3050M	100000	2.700G-3.400G	1.0m							TR		MT	
68#	BS110	3050M	100000 *	2.90G-3.20G			5.0u*	1.25	300m*	100m*	1.0	TR	BP	WA	
69#	QF37	3050M	100000 *	2.6G-3.5GØ,±30M⧄			13u*	1.3	150m*	50m*	800m	TR		WA	
70	BTR541	3050M	500000	2.90G-3.20G	2.0m	4.0u	15u	1.3Ø	300m	60m	300mØ	TR	§	WA	1.0k
71	5853	3050M	750000	2.90G-3.20G	1.0m	1.0u	15u	1.3Ø	300m	40m	700mØ	TR	§	WA	500
72▼	5853/MST23	3050M	750000	2.900G-3.200G	800u							TR		BP	
73	BES050	3050M	1.0M	2.90G-3.20G	1.0m	1.0u	15u	1.3Ø	300m	40m	700mØ	TR	$	WA	500
74#	BS894	3050M	1.0M*	3.02G-3.08G*	2.0m		10u*	1.2	150m*	60m*	500m	TR	MTPS	WA	
75#	BS286	3080M	1.25M*	3.055G-3.105G			25u*	1.2	250m*	100m*	1.0	TR	BP	WA	
76	BL696	3090M	50000	3.09G	1.0m	1.0u	5.0u	1.3Ø	300m	100m	700mØ	TR	§	CO	1.0k
77	JAN1B27	3150M	50000	2.60G-3.70G*	500u	500n	20u*			40m*		TR	CMMT	CC	500 †
78#	WF23A	3175M	500000 *	3.00G-3.35G			15u*	1.4	600m*		800m	TR		WA	
79#	WF23B	3175M	500000 *	3.00G-3.35G			15u*	1.4	600m*		800m	TR		WA	
80#	BS730	3250M	2.5M*	2.50G-4.00G			250u*					TR	BPPL		
81#	BS714	3275M	5000 *	2.60G-3.95G	1.0m		30u*	1.12	10 *	3.6 *	200m	TR	PLPS	WA	
82#	BS732	3275M	5000	2.60G-3.95G			16u*	1.12	16 *	3.5 *	200m	TR	PLPS	WA	
83#	BS852	3280M	1.0M	2.60G-3.96G*			10u*			50m*	1.5	TR	PS		
84#	BS924	3300M	250000 *	3.275G-3.325G			3.0u*	1.1			1.0	TR			
85#	WF21H	3300M	500000 *	3.10G-3.50G			15u*	1.4	600m*		800m	TR		WA	
86▼	5927/MST21	3300M	750000	3.100G-3.500G	1.0m							TR		BP	
87	6602	3300M	750000 *	3.07G-3.53G			15u*	1.9	300m*	50m*	700m	TR	BPCM$	WA	
88▼	MSC13	3300M	750000	3.100G-3.500G	53u							TR		BP	
89▼	MSC15	3300M	750000	3.100G-3.500G	60u							TR		BP	
90	5927	3300M	825000	3.10G-3.50G	1.0m	1.0u	15u	1.3Ø	300m	40m	700mØ	TR	§	WA	500
91	JAN5927	3300M	825000	3.10G-3.50G	1.0m	1.1u	15u*	1.9	300m*	50m*	700m	TR	BP	WA	500 †
92	BES046	3300M	1.0M	3.10G-3.50G	1.0m	1.0u	15u	1.3Ø	300m	50m	700mØ	TR	$	WA	500
93#	BS430	3305M	1.25M	3.23G-3.38G			25u*	1.33	250m*	100m*	1.0	TR	BP	WA	
94♦#	BS724	3350M	15 *	2.60G-4.10G	1.0m		70u*			300m*	4.3	TR *		WA	
95♦#	BS726	3350M	15 *	2.60G-4.10G	1.0m		70u*			300m*	4.3	TR *		WA	
96♦#	BS728	3350M	15 *	2.60G-4.10G	1.0m		70u*			300m*	4.3	TR *		WA	
97#	BS946	3535M	1.25M	3.45G-3.62G			25u*	1.33	250m*	100m*	1.0	TR	BP	WA	
98▼	1B55/MST18	3552M	750000	3.365G-3.740G	800u							TR		BP	
99#	WF22A	3565M	500000 *	3.345G-3.785G			15u*	1.4	600m*		800m	TR		WA	
100#	WF22B	3565M	500000 *	3.345G-3.785G			15u*	1.4	600m*		800m	TR		WA	
101#	BS932	3630M	30000 *	3.49G-3.77G	1.5m		10u*	1.2	250m*	150m⧄	800m	TR	BP	WA	
102#	BS426	3690M	1.25M*	3.60G-3.78G			25u*	1.33	250m*	100m*	1.0	TR	BP	WA	
103▼	MCT36	4455M	1750	4.445G-4.465G	1.0m							TR	BPCP		1.0k
104▼	MCT24	5300M	300000	5.250G-5.350G	1.0m							TR		BP	
105▼	6592/MCC10	5365M	100000	5.200G-5.530G	10m							TR		BP	
106#	5925	5365M	1.0M*	5.20G-5.53G			9.0u*					TR	BP		
107	6592	5365M	1.0M*	5.20G-5.53G			9.0u*	1.9	300m*	70m*	800m	TR	BP$	WA	
108▼	MCT45	5400M	4000	5.350G-5.450G	1.0m							TR			2.0k
109	6624	5400M	85000	5.35G-5.45G	1.0m	1.0u	10u	1.3Ø	700m	50m	700mØ	TR	§	WA	500
110▼	6624/MCT18	5400M	85000	5.350G-5.450G	1.0m							TR		BP	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. DUPLEXER TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)INCIDENT POWER (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 INCIDENT POWER (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. PULSE WIDTH (s)	RECOVERY TIME (s)	MAX. VSWR	LEAKAGE		MAX. INSERTION LOSS (dB)	DESCRIPTION			
									SPIKE (ergs)	FLAT (W)		1 TUBE TYPE	FEATURES	OUTPUT	LIFE (hr)
1	BTR547	5400M	85000	5.35G-5.45G	1.0m	1.0u	7.0u	1.3Ø	300m	60m	300mØ	TR	§	WA	500
2▼	MCT29	5400M	85000	5.350G-5.450G	1.0m							TR	BPCP		
3▼#	5X10	5400M	100000	5.230G-5.675G	1.0m	1.0u	5.0u	1.4	100m	30m	900m	TR	BP	WA	
4	BLS032	5445M	300000	5.24G-5.65G	1.0m	1.0u	10u	1.3Ø	300m	80m	800mØ	TR	$	WA	500
5#	JF71	5500M	100000 *	5.25G-5.75G			5.0u	1.3	3.0	300m	400m	TR		WA	
6#	WF70	5500M	150000 *	5.25G-5.75G			10u*	1.3	200m		1.0	TR		WA	
7#	BS856	5500M	250000	5.30G-5.70G			15u*	1.25	4.0 *	600m*	500m	TR	BPPS	WA	
8#	BS966	5500M	500000 *	5.25G-5.75G			10u*	1.25	300m*	80m*	800m	TR	BP	WA	
9▼	MCT15	5550M	1000	5.540G-5.560G	1.0m							TR		MT	
10	6639	5550M	20000 *	5.45G-5.65G			1.5u*			60m*	1.2	TR	CMMT	WA	
11	6639/BL46	5550M	20000	5.45G-5.65G	3.0m	1.0u	1.5u	1.3Ø	1.2	60m	1.2 Ø	TR	§	WA	500
12▼	6639/MCT14	5550M	20000	5.450G-5.650G	1.0m							TR		MT	
13▼	MCT37	5550M	250000	5.450G-5.650G	1.0m							TR	BPCP		
14	BL973	5575M	10000	5.395G-5.755G	1.0m	1.0u	6.0u	1.3Ø	1.0	25m	1.0 Ø	TR	§	WA	500
15▼	MCC21	5575M	100000	5.395G-5.755G	400u							TR		BP	
16	JAN8770	5637M	250000 *	5.450G-5.825G	1.0m	1.0u	19u*	1.4	250m*	70m*	26 †	TR	$	WA	1.0k†
17	8770/BTR546	5637M	250000	5.450G-5.825G	1.0m	1.0u	12u	1.3Ø	250m	40m	700mØ	TR	$	WA	1.0k
18▼	MCC17	5637M	250000	5.450G-5.825G	1.0m							TR		BP	
19#	5865/TR361	5645M	300000 *	5.39G-5.90G			10u*					TR	BP		
20▼	MCT19	5650M	4000	5.395G-5.905G	1.0m							TR		BP	
21▼	MCT28	5650M	4000	5.395G-5.905G	1.0m							TR	BP	CO	
22	6906	5650M	5000 *	5.395G-5.905G			7.0u*	2.0	400m*	85m*	400m	TR	BPCM	WA	
23	6906/BL643	5650M	5000	5.40G-5.90G	1.0m	1.0u	7.0u	1.3Ø	400m	85m	400mØ	TR	§	WA	500
24▼	6906/MCT26	5650M	5000	5.395G-5.905G	1.0m							TR		BP	
25	BTR614	5650M	8000	5.395G-5.905G	2.5m	20u	8.0u	1.3Ø	200m	75m	200mØ	TR	§	WA	500
26	BLS526	5650M	10000	5.40G-5.90G	1.0m	1.0u	7.0u	1.3Ø	600m	70m	600mØ	TR	§	WA	500
27	JAN7849	5650M	50000 *	5.395G-5.905G		4.5u	8.0u*	1.9	250m*	50m*	700m	TR		WA	1.0k*
28	BL398	5650M	50000	5.395G-5.905G	7.0m	30u	12u	1.3Ø	250m	70m	600mØ	TR	$	WA	1.0k
29#	JF72	5650M	100000 *	5.40G-5.90G			5.0u	1.3	3.0	300m	400m	TR		WA	
30▼	MCC16	5650M	100000	5.400G-5.900G	1.0m							TR		BP	
31#	WF71	5650M	150000 *	5.40G-5.90G			10u*	1.3	200m		1.0	TR		WA	
32▼	MCC20	5650M	250000	5.400G-5.900G	160u							TR		BP	
33▼	MCT27	5650M	250000	5.395G-5.905G	1.0m							TR	BPCP		
34	5865	5650M	300000	5.40G-5.90G	1.0m	1.0u	10u	1.3Ø	800m	70m	800mØ	TR	§	WA	500
35	JAN5865	5650M	300000 *	5.395G-5.905G		1.0u	10u*	1.9	250m*	50m*	800m	TR	BP	WA	500 †
36▼	5865/MCT32	5650M	300000	5.395G-5.905G	1.0m							TR		BP	
37	6594	5650M	300000 *	5.395G-5.905G			10u*	1.9	300m*	70m*	800m	TR	BP$	WA	
38	6594/BL311	5650M	300000	5.395G-5.905G	1.0m	1.0u	10u	1.3Ø	300m	70m	800mØ	TR	$	WA	500
39▼	6594/MCC1	5650M	300000	5.395G-5.905G	1.0m							TR		BP	
40	BL350	5650M	300000	5.395G-5.905G	1.0m	1.0u	10u	1.3Ø	300m	70m	800mØ	TR	$	WA	500
41	BL366	5650M	300000	5.395G-5.905G	1.0m	1.0u	10u	1.3Ø	300m	70m	800mØ	TR	$	WA	500
42▼	MCC19	5650M	300000	5.395G-5.905G	133u							TR		BP	
43▼	MCT40	5650M	300000	5.395G-5.905G	1.0m							TR			
44♦#	TH2602	5650M	300k†	5.400G-5.900G	1.0m		10u*				800m	TR		WA	
45	7849/BTR140	5650M	500000	5.395G-5.905G	4.4m	4.5u	8.0u	1.3Ø	700m	50m	700mØ	TR	§	WA	1.0k
46▼	7849/MCT23	5650M	500000	5.395G-5.905G	1.0m							TR	BPCP		
47▼	MCT21	5650M	500000	5.395G-5.905G	1.0m							TR		BP	
48▼	MCT46	5650M	500000	5.395G-5.905G	1.0m							TR			
49▼	MCT11	5650M	1000k	5.395G-5.905G	1.0m							TR		BP	
50	6568	5650M	3.0M*	5.395G-5.905G			6.0u*	1.9	250m*	70m*	800m	TR	BPCM	WA	
51▼	6568/MCT17	5650M	3000k	5.395G-5.905G	1.0m							TR		BP	
52▼	8574/MXT132	7700M	20000	5.800G-9.600G	1.0m							TR		BP	
53▼	MCT43	8090M	100000	5.380G-5.420G	1.0m							TR			
54▼	MXC24	8400M	1000	8.200G-8.600G	1.0m							TR		BP	
55	BLT072	8800M	125	8.70G-8.90G	40m	1.0u	500n	1.3Ø	250m	150m	900mØ	TR	§	WA	500
56#	WF402	8800M	4000 †	8.50G-9.10G			4.0u*	1.2	200m*	100m*	800m	TR		WA	
57▼	MXT37	8800M	20000	8.700G-8.900G	10u							TR		BP	
58#	BS158	8800M	200000 *	8.50G-9.10G			3.0u*	1.2	200m*	100m*	800m	TR	BP	WA	
59#	BS440	8800M	200000 *	8.50G-9.10G			2.0u*	1.2	200m*	100m*	800m	TR	BP	WA	
60#	WF43	8900M	4000 †	8.50G-9.30G			3.0u*	1.3	300m*	100m*	800m	TR		WA	
61#	BS202	8900M	200000 *	8.50G-9.30G			3.0u*	1.3	300m*	100m*	800m	TR	BP	WA	
62▼	6593/MXC11	8989M	250000	8.490G-9.578G	1.0m							TR		BP	
63▼	MXC44#2	8989M	250000	8.490G-9.578G	80u							TR		BP	
64♦#	1B63A	9000M	200000	8.490G-9.575G			4.0u	1.9	100m	30m		TR	BP	WA	
65#	BS860	9025M	100000 *	8.825G-9.225G	1.0m		1.4u*	1.3	150m*	100m*	800m	TR	BPPS	WA	
66	JAN5863	9034M	1000 *	8.490G-9.578G			8.0u*	1.9	150m*	30m*	700m	TR	BP	WA	500 †
67	6644	9034M	100000 *	8.490G-9.578G			1.5u*	1.9	200m*	60m*	700m	TR	BPCM	WA	
68	6645	9034M	100000 *	8.490G-9.578G			1.5u*	1.9	200m*	60m*	700m	TR	BPCM	WA	
69▼	6645/MXT61	9034M	100000	8.490G-9.578G	1.0m							TR		BP	
70▼	6646/MXT70	9034M	100000	8.490G-9.578G	1.0m							TR		BP	
71	JAN1B63A	9034M	200000 *	8.490G-9.578G	1.0m	1.0u	10u*	1.9	200m*	40m*	700m	TR	BP	WA	500 †
72▼	1B63A/MXT15	9034M	200000	8.490G-9.578G	1.0m							TR		BP	
73#	9X63	9034M	200000 *	8.490G-9.578G			10u*					TR	BP		
74#	BS914	9034M	200000 *	8.490G-9.578G			4.0u*	1.4	200m*	50m*	700m	TR	BP	WA	
75	6334	9034M	250k*	8.490G-9.578G		500n	10u*	1.4	100m*	20m*	1.2	TR	BP	WA	
76	6597	9034M	250000 *	8.490G-9.578G			10u	1.9	300m*	40m*	700m	TR	BPCM$	WA	
77	6615	9034M	250k*	8.490G-9.578G			10u*	1.9	300m*	40m*	700m	TR	BP	WA	
78	6616	9034M	250k*	8.490G-9.578G			10u*	1.9	300m*	40m*	700m	TR	BP	WA	
79#	5863	9034M	1.0M*	8.490G-9.578G			8.0u*					TR	BP		
80	6593	9034M	1.0M*	8.490G-9.578G			8.0u*	1.9	300m*	30m*	700m	TR	BP$	WA	
81♦#	1B24A	9045M		8.490G-9.600G			4.0u				1.5	TR	CM	WA	
82	JAN1B24A	9045M	30000 *	8.49G-9.60G*			4.0u*			30m*	2.0	TR	MT	WA	500 †
83	JAN6378	9045M	30000 *	8.49G-9.60G*	1.0m	1.0u	4.0u*			30m*	1.5	TR	MT	WA	500 †
84	6378/BL62	9045M	30000	8.49G-9.60G	1.0m	1.0u	4.0u	1.3Ø		30m	1.5 Ø	TR	§	WA	500
85	BTR570A	9045M	30000	8.49G-9.60G	1.0m	1.0u	4.0u	1.3Ø		30m	2.0 Ø	TR	§	WA	500
86▼	1B24A/MXT14	9045M	100000	8.490G-9.600G	1.0m							TR		MT	
87▼	6378/MXT20	9045M	100000	8.490G-9.600G	1.0m							TR		MT	
88	6595	9045M	100000 *	8.49G-9.60G			4.0u*			30m*	1.5	TR	MT$	WA	
89	6644/BL95	9045M	100000	8.49G-9.60G	1.0m	1.0u	1.5u	1.3Ø	200m	60m	700mØ	TR	§	WA	500
90	6645/BL95H	9045M	100000	8.49G-9.60G	1.0m	1.0u	1.5u	1.3Ø	200m	60m	700mØ	TR	§	WA	500
91	1B63B	9045M	200000	8.49G-9.60G	1.0m	1.0u	10u	1.3Ø	200m	40m	700mØ	TR	§	WA	1.0k
92▼#	TV19111	9050M		8.500G-9.600G							150m	TR	$	WA	
93▼	MXT102	9050M	2000	8.500G-9.600G	1.0m							TR	BPCP		
94#	WF49A	9050M	4000 †	8.50G-9.60G			5.0u*	1.9	300m*	100m*	700m	TR		WA	
95	BL965	9050M	10000	8.50G-9.60G	1.0m	1.0u	7.0u	1.3Ø	250m	75m	500mØ	TR	§	WA	500
96▼	MXT46	9050M	10000	8.500G-9.600G	1.0m							TR	BPCP		
97♦#	TV3340	9050M	10k*	8.500G-9.600G	1.0m		5.0u*				700m	TR	BP	WA	
98♦#	TV3340A	9050M	10000 *	8.500G-9.600G	1.0m		5.0u*				700m	TR		WA	
99	BLT114A	9050M	20000	8.50G-9.60G	1.0m	1.0u	1.0u	1.3Ø	300m	75m	500mØ	TR	§	WA	1.5k
100	BLT028	9050M	40000	8.50G-9.60G	1.0m	500n	5.0u	1.3Ø	200m	40m	500mØ	TR	§	WA	500
101♦#	7381	9050M	200k*	8.500G-9.600G	1.0m		3.0u*				1.1	TR		WA	
102#	BS314	9050M	250000	8.50G-9.60G			2.0u*	1.4	200m*		1.0	TR			
103	BTR171	9050M	250000	8.50G-9.60G	1.0m	300n	3.0u	1.3Ø	150m	15m	1.1 Ø	TR	$	WA	2.0k
104	BTR174	9050M	250000	8.50G-9.60G	1.0m	1.0u	750n	1.3Ø	50m	15m	1.1 Ø	TR	$	WA	750
105	BTR666	9050M	250000	8.50G-9.60G	1.0m	1.0u	1.5u	1.3Ø	100m	15m	1.0 Ø	TR	$	WA	500
106♦#	F3012	9050M	250k*	8.500G-9.600G	1.0m		7.0u*				1.1	TR		WA	
107	BL970	9050M	300000	8.50G-9.60G	1.0m	1.0u	7.0u	1.3Ø	150m	10m	1.0 Ø	TR	$	WA	500
108	BTR129	9050M	300000	8.50G-9.60G	1.0m	1.0u	5.0u	1.3Ø	200m	15m	500mØ	TR	$	WA	500
109	6564	9050M	500k*	8.50G-9.60G			7.0u*	1.2	100m*	20m*	1.0	TR	BP	WA	
110♦#	TH2608	9080M	10k*	8.980G-9.180G	1.0m		3.0u*				1.0	TR	CP	WA	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. DUPLEXER TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)INCIDENT POWER (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 INCIDENT POWER (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. PULSE WIDTH (s)	RECOVERY TIME (s)	MAX. VSWR	LEAKAGE		MAX. INSERTION LOSS (dB)	DESCRIPTION			
									SPIKE (ergs)	FLAT (W)		1 TUBE TYPE	FEATURES	OUTPUT	LIFE (hr)
1♦#	TH2607	9080M	40k*	8.980G-9.180G	1.0m		3.0u*				800m	TR		WA	
2▼#	BS842	9100M	4000 †	8.400G-9.800G	CW		4.0u*	1.5	200m	250m⧄	1.0	TR	BPPS	WA	
3#	BS216	9100M	50000 *	8.70G-9.50G			2.0u*	1.5	20m*	25m*	1.0	TR	BP	WA	
4♦#	TH2605	9150M	20k*	9.000G-9.300G	1.0m		3.0u*				500m	TR	CP	WA	
5#	BS462	9150M	75000 *	9.00G-9.30G*			6.0u*	1.4	80m*	30m*	1.0	TR	MT	WA	
6#	BS228	9150M	250000 *	8.95G-9.35G			2.0u*	1.4	6.0 *	1.0 *	500m	TR	BPPS	WA	
7	JAN6795A	9200M	40000 *	9.00G-9.40G	2.0m		10u*	1.4	200m*	40m*	700m	TR	BP	WA	500 *
8▼	6795A/MXT12	9200M	40000	9.000G-9.400G	1.0m							TR	BPCP		
9#	724B	9200M	75000 *	8.541G-9.862G			6.0u*					TR			
10#	NF42	9250M		7.00G-11.50G			50u*				2.7	TR		WA	
11#	NF43	9250M		7.00G-11.50G			50u*				2.7	TR		WA	
12#	BS956	9250M	100 *	7.00G-11.50G	1.0m		70u*			300m*	500m	TR	BP	WA	
13#	BS928	9250M	200000 *	8.50G-10.00G			2.0u*	1.4	6.0 *	1.0 *	800m	TR	BPPS	WA	
14	BL325	9270M	1000	8.94G-9.60G	1.0m	1.0u		1.3∅			700m∅	TR	$	WA	50k⧄
15	6615/BL312	9270M	250000	8.94G-9.60G	1.0m	1.0u	10u	1.3∅	300m	40m	700m∅	TR	$	WA	500
16♦#	F3043	9300M	10k*	9.000G-9.600G	1.0m		3.0u*				700m	TR	CP	WA	
17♦#	TV3340B	9300M	10k*	9.000G-9.600G	1.0m		5.0u*				700m	TR		WA	
18#	BS156	9300M	200000 *	9.00G-9.60G			3.0u*	1.2	200m*	100m*	800m	TR	BP	WA	
19♦#	TV3301	9300M	250k*	9.000G-9.600G	1.0m		3.0u*				1.1	TR		WA	
20#	WF407L	9345M	20000 *	9.30G-9.39G			50u*	1.4	50m*		800m	TR		WA	
21	BLT088	9375M	2000	9.335G-9.415G	1.0m	2.0u	10u	1.3∅	250m	50m	700m∅	TR	§	WA	1.0k
22	BTR639	9375M	2000	9.335G-9.415G	1.0m	2.0u	10u	1.3∅	250m	50m	700m∅	TR	§	WA	750
23	6378	9375M	10k†	8.49G-9.60G			4.0u*			30m		TR	BP	WA	
24	6795	9375M	20000	9.325G-9.425G	1.0m	1.0u	10u	1.3∅	250m	40m	700m∅	TR	§	WA	500
25	BTR545A	9375M	35000	9.325G-9.425G	1.0m	1.0u	2.0u	1.3∅	250m	40m	500m∅	TR	§	WA	500
26	BLT101	9375M	40000	9.325G-9.425G	1.0m	1.0u	10u	1.3∅	250m	60m	700m∅	TR	§	WA	500
27▼	MXC19	9375M	40000	9.300G-9.450G	1.0m							TR		BP	
28	6565	9375M	100k*	8.49G-9.60G			4.0u*			30m*	1.5	TR	MT	WA	
29	BL367A	9375M	100000	9.25G-9.50G	1.0m	1.0u	1.5u	1.3∅	300m	40m	700m∅	TR	$	WA	500
30▼	MXC33	9375M	100000	9.250G-9.500G	1.0m							TR		BP	
31▼	MXT51	9375M	100000	9.325G-9.425G	1.0m							TR		BP	
32▼	MXT78	9375M	100000	9.325G-9.425G	1.0m							TR		WA	
33▼	MXT133	9375M	100000	9.325G-9.425G	1.0m							TR			
34	BL397A	9375M	250000	9.25G-9.50G	1.0m	1.0u	1.5u	1.3∅	300m	40m	700m∅	TR	$	WA	500
35▼	MXC20	9375M	250000	9.250G-9.500G	1.0m							TR		BP	
36#	T340	9380M	10000 *	9.25G-9.50G			1.5u*					TR	BP$		
37#	T342	9380M	10000 *	9.25G-9.50G			1.5u*					TR	BP$		
38#	BS892	9380M	50000 *	9.34G-9.42G			3.0u*	1.4	150m*	100m*	1.0	TR	BP	WA	
39#	T341	9380M	250000 *	9.25G-9.50G			3.0u*					TR	BP$		
40▼#	BS206	9400M	1000 †	9.300G-9.500G	CW		3.0u	1.4	100m	120m⧄	1.0	TR	PS	WA	
41#	BS466	9400M	75000 *	9.20G-9.60G*			6.0u*	1.4	80m*	30m*	1.0	TR	MT	WA	
42▼#	E3902	9400M	75000	9.300G-9.500G	1.0m	1.0u	2.0u	1.4	80m	30m	900m	TR	PS	WA	
43♦#	9X64	9400M	100000	9.300G-9.500G			3.0u					TR		BP	
44#	BS450	9400M	100000 *	9.30G-9.50G			3.0u*	1.3	150m*	100m*	800m	TR	BP	WA	
45#	BS192	9400M	200000	9.30G-9.50G			3.0u*	1.3			700m	TR			
46#	BS196	9400M	200000 *	9.30G-9.50G			4.0u*	1.4	200m*	50m*	700m	TR	BP	WA	
47#	BS810	9410M	75000 *	9.245G-9.575G*			1.5u	1.4	80m*	30m*	800m	TR	MT	WA	
48#	BS452	9410M	100000 *	9.31G-9.51G	1.0m		1.4u*	1.3	150m*	85m*	800m	TR	BP	WA	
49#	WF409	9410M	100000 *	9.31G-9.51G			1.4u*	1.4	150m*	225m*⧄	800m	TR		WA	
50#	BS52	9410M	200000 *	9.32G-9.50G			3.0u*	1.2	250m*	100m*	700m	TR	BP	WA	
51#	BS52A	9410M	200000 *	9.32G-9.50G			3.0u*	1.2	250m*	100m*	700m	TR			
52	BES051	9450M	1000	9.20G-9.70G	1.0m	1.0u		1.3∅			100m∅	TR	$	WA	50k⧄
53	BTR629A	9450M	5000	9.40G-9.50G	1.0m	1.0u	1.5u	1.3∅	200m	40m	600m∅	TR	§	WA	500
54#	BS822	9547M	75000 *	9.405G-9.690G*			1.5u*	1.4	80m*	30m*	800m	TR	MT	WA	
55#	WF42	9590M	4000 †	9.18G-10.00G			3.0u*	1.3	300m*	100m*	800m	TR		WA	
56#	QF451N	9650M	1000 †	9.50G-9.80G*			4.0u*	1.4	80m*		800m	TR		WA	
57	BL364	9800M	1000	9.60G-10.00G	1.0m	1.0u		1.3∅			700m∅	TR	$	WA	50k⧄
58▼#	TV19114	9900M		9.300G-10.500G							150m	TR	$	WA	
59▼	MKT34	15500M	10000	15.300G-15.700G	1.0m							TR		BP	
60▼	MKT35	16000M	10000	15.900G-16.100G	1.0m							TR	BPCP		
61	6649	16000M	100000 *	15.00G-17.00G			10u*	1.9	300m*		700m	TR	BP	WA	
62	BES043	16400M	1000	15.80G-17.00G	1.0m	3.0u		1.3∅			20 ∅	TR	$	WA	
63	BTR537	16400M	10000	15.80G-17.00G	1.0m	1.0u	1.0u	1.3∅	250m	50m	600m∅	TR	$	WA	1.6k
64	BTR554	16400M	10000	15.80G-17.00G	1.0m	1.0u	700n	1.3∅	150m	65m	500m∅	TR	$	WA	2.0k
65	JANDOD005	16400M	10000 *	15.80G-17.00G	1.0m	500n	1.0u*	1.4	250m*	50m*	600m	TR	BP$	WA	1.6k†
66	BLS530	16467M	12500	16.410G-16.525G	1.0m	1.0u	1.8u	1.3∅	200m	75m	600m∅	TR	$	WA	1.0k
67▼#	TV19112C	16500M		16.000G-17.000G							200m	TR	$	WA	
68	BTR608	16500M	5000	16.00G-17.00G	8.0m	2.0u	1.0u	1.3∅	150m	50m	600m∅	TR	§	WA	2.0k
69	BTR630	16500M	5000	16.25G-16.75G	1.0m	2.0u	800n	1.3∅	120m	75m	600m∅	TR	§	WA	2.0k
70▼	MKT27	16500M	5000	16.000G-17.000G	1.0m							TR	BPCP		
71	8599/BTR138	16500M	10000	15.50G-17.50G	1.0m	1.0u	4.0u	1.3∅	200m	50m	600m∅	TR	§	WA	1.5k
72	BL967A	16500M	10000	16.00G-17.00G	1.5m	500n	8.0u	1.3∅	300m	75m	800m∅	TR	§	WA	500
73	BLT111	16500M	10000	16.00G-17.00G	1.0m	500n	700n	1.3∅	150m	40m	500m∅	TR	§	WA	2.0k
74	BTR574	16500M	10000	15.90G-17.10G	1.0m	1.0u	700n	1.3∅	200m	85m	700m∅	TR	§	WA	2.0k
75▼	MKT25	16500M	10000	16.000G-17.000G	1.0m							TR	BPCP		
76▼	MKT32	16500M	10000	15.000G-17.000G	1.0m							TR		BP	
77▼	MKT37	16500M	10000	16.000G-17.000G	1.0m							TR	BPCP		
78#	T364	16500M	10000 *	16.00G-17.00G			1.0u*					TR	BP		
79♦#	TV3308	16500M	10k*	16.000G-17.000G	1.0m		8.0u*				800m	TR	CP	WA	
80▼	8599/MKT39	16500M	50000	15.500G-17.500G	1.0m							TR	BPCP		
81	BTR540	16850M	10000	16.60G-17.10G	1.5m	300n	1.0u	1.3∅	200m	50m	600m∅	TR	§	WA	500
82▼	MKT42	23500M	100000	15.000G-17.000G	1.0m							TR		BP	
83	6282	24150M	35k*	23.35G-24.95G			4.0u*	1.9	200m*	40m*	800m	TR	FT	WA	
84▼#	BS78	31500M	75000	30.000G-33.000G			6.0u	1.3	200m		1.0	TR	PS	WA	
85	BTR576	32100M	10000	31.10G-33.10G	1.0m	240n	1.1u	1.3∅	200m	30m	700m∅	TR	§	WA	1.0k
86▼#	BS80	34500M	75000	33.000G-36.000G			6.0u	1.3	200m		1.0	TR		WA	
87	BLT058	34850M	10000	34.50G-35.20G	500u	300n	500n	1.3∅	150m	30m	800m∅	TR	§	WA	700
88♦#	QF50	34875M	50000 *	34.06G-35.69G			2.0u*	2.0	30m*	25m*	2.0	TR		WA	
89	BTR640	34900M	10000	34.55G-35.25G	1.0m	250n	1.1u	1.3∅	150m	30m	700m∅	TR	§	WA	1.0k
90#	WF60	34900M	20000 *	34.09G-35.71G			2.0u*	1.6	40m*	20m*	1.2	TR		WA	
91	BES063	35000M	1000	34.00G-36.00G	1.0m	1.0u		1.3∅				TR	$	WA	
92	BES044	70000M	1000	65.00G-75.00G	1.0m	500n		1.3∅				TR	$		
93	BLS517	70500M	3000	69.50G-71.50G	2.0m	1.0u	700n	1.3∅	100m	50m	1.2 ∅	TR		WA	500
94	7821	441M	2.0M*	432M-450M	1.8u	6.0u	300u*				1.2	TRDL	BPCM	WA	
95▼	6634/MLT25	1300M	5000k	1.250G-1.350G	1.0m							TRDL	BP		
96▼	6602/MSC10	1885M	750000	3.100G-3.500G	1.0m							TRDL	BP		
97	6636	2800M	750000 *	2.70G-2.90G			15u	1.2	100m*	20m*	900m	TRDL	BPCM	WA	
98	6636/BL87	2800M	750000	2.70G-2.90G	1.0m	1.0u	15u	1.3∅	100m	20m	600m∅	TRDL	§	WA	500
99▼	6636/MST24	2800M	750000	2.700G-2.900G	1.0m							TRDL	BP		
100▼	8578/MST60	2800M	1000k	2.700G-2.900G	1.0m							TRDL		WA	
101	BLT033	2800M	1.0M	2.70G-2.90G	1.0m	1.0u	20u	1.3∅	100m	20m	900m∅	TRDL	§	WA	500
102▼	MST22	2800M	1000k	2.700G-2.900G	750u							TRDL	BP		
103	BL638	3050M	750000	2.90G-3.20G	1.0m	1.0u	15u	1.3∅	300m	40m	600m∅	TRDL	§	WA	500
104▼	6637/MST29	3300M	50000	3.135G-3.465G	1.0m							TRDL	BP		
105▼	6638/MST30	3300M	50000	3.135G-3.465G	1.0m							TRDL			
106▼	MSC11	3550M	750000	3.400G-3.700G	1.0m							TRDL	BP		
107	6641/BL86	5270M	1.0M	5.20G-5.34G	1.0m	1.0u	12u	1.3∅	100m	10	800m∅	TRDL	§	WA	500
108	6641	5280M	1.0M*	5.15G-5.41G			12u*	1.3	100m*	10m*	1.0	TRDL	BPCM	WA	
109	BL644	5280M	1.0M	5.25G-5.31G	1.0m	1.0u	12u	1.3∅	100m	10m	600m∅	TRDL	§	WA	500
110▼	MCT20	5280M	1000k	5.220G-5.340G	1.0m							TRDL	BP		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. DUPLEXER TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)INCIDENT POWER (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 INCIDENT POWER (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. PULSE WIDTH (s)	RECOVERY TIME (s)	MAX. VSWR	LEAKAGE		MAX. INSERTION LOSS (dB)	DESCRIPTION			
									SPIKE (ergs)	FLAT (W)		1 TUBE TYPE	FEATURES	OUTPUT	LIFE (hr)
1▼	MCT44	5480M	10000	5.250G-5.710G	1.0m							TRDL	BP		
2	BTR123	5480M	500000	5.25G-5.71G	1.0m	5.0u	8.0u	1.3Ø	250m	50m	500mØ	TRDL	§	WA	1.0k
3▼	MCT41	5480M	1000k	5.250G-5.710G	1.0m							TRDL	BP		
4	6640	5650M	700000 *	5.40G-5.90G			12u*	1.3	100m*	10m*	1.2	TRDL	BPCM	WA	
5	6640/BL60	5650M	700000	5.40G-5.90G	1.2m	1.0u	12u	1.3Ø	100m	10m	800mØ	TRDL	§	WA	500
6▼	6640/MCT16	5650M	700000	5.395G-5.905G	1.0m							TRDL	BP		
7	7447/BL325A	5650M	700000	5.40G-5.90G	1.2m	1.0u	5.0u	1.3Ø	150m	25m	800mØ	TRDL	$	WA	500
8▼	7447/MCT30	5650M	700000	5.400G-5.900G	1.0m							TRDL	BP		
9	BL336	5650M	700000	5.40G-5.90G	1.2m	1.0u	12u	1.3Ø	100m	10m	800mØ	TRDL	$	WA	500
10	BL362	5650M	700000	5.40G-5.90G	1.0m	1.0u	12u	1.3Ø	100m	10m	800mØ	TRDL	$	WA	500
11▼	MCC15	5650M	700000	5.400G-5.900G	1.0m							TRDL	BP		
12	BES048	5650M	1.0M	5.40G-5.90G	1.0m	1.0u	12u	1.3Ø	100m	10m	800mØ	TRDL	$	WA	500
13	BTR162	5650M	1.0M	5.40G-5.90G	2.0m	2.0u	7.0u	1.3Ø	100m	10m	1.0 Ø	TRDL	§	WA	500
14▼	MCC12	5650M	1000k	5.400G-5.900G	1.0m							TRDL	BP		
15	6905	5650M	3.0M*	5.40G-5.90G			10u*	1.3	100m*	10m*	1.2	TRDL	BPCM	WA	
16	6905/BL613	5650M	3.0M	5.395G-5.905G	1.5m	3.0u	7.0u	1.3Ø	100m	10m	1.0 Ø	TRDL	§	WA	500
17▼	6905/MCT10	5650M	3000k	5.395G-5.905G	1.0m							TRDL	BP		
18	BTR153	5650M	3.0M	5.395G-5.905G	1.6m	20u	7.0u	1.3Ø	100m	10m	600mØ	TRDL	§	WA	1.0k
19▼	MCT38	5925M	1000k	5.875G-5.975G	1.0m							TRDL	BPCP		
20	6599	9034M		8.490G-9.578G			7.0u*	1.4	100m*	20m*	1.2	TRDL	BPCM$	WA	
21	6648	9034M		8.490G-9.578G			10u*	1.9	300m*	40m*	700m	TRDL	BPCM	WA	
22	6646	9034M	100000 *	8.490G-9.578G			1.5u*	1.4	100m*	20m*	1.2	TRDL	BPCM	WA	
23	6647	9034M	100000 *	8.490G-9.578G			1.5u*	1.4	100m*	20m*	1.2	TRDL	BPCM	WA	
24	6805	9034M	200k*	8.490G-9.578G			10u	1.9	300m*	40m*	700m	TRDL	BP	WA	
25▼	MXT109	9034M	200000	8.490G-9.578G	1.0m							TRDL	BP		
26	6596	9034M	250000 *	8.490G-9.578G			7.0u*	1.4	100m*	20m	1.2	TRDL	BP$	WA	
27	6601	9034M	250000 *	8.490G-9.578G			7.0u*	1.4	100m*	20m*	1.1	TRDL	BPCM$	WA	
28	6604	9034M	250000 *	8.490G-9.578G			7.0u*	1.4	100m*	20m*	1.2	TRDL	BPCM$	WA	
29	6642	9034M	250000 *	8.490G-9.578G			7.0u*	1.4	100m*	20m*	1.1	TRDL	BPCM	WA	
30	6904	9034M	250000 *	8.49G-9.578G			7.0u*	1.4	100m*	20m*	1.2	TRDL	BPCM$	WA	
31▼	MXC25	9034M	250000	8.490G-9.578G	1.0m							TRDL	BP		
32▼	MXT27	9034M	250000	8.490G-9.578G	1.0m							TRDL	BP		
33#	T351	9034M	250000 *	8.490G-9.578G			5.0u*					TRDL	BP		
34	6646/BL604	9045M	100000	8.49G-9.60G	1.0m	1.0u	1.5u	1.3Ø	100m	20m	1.0 Ø	TRDL	§	WA	500
35	6334/BL27	9045M	200000	8.49G-9.60G	1.0m	1.0u	7.0u	1.3Ø	150m	15m	1.1 Ø	TRDL	§	WA	500
36	BTR209	9045M	250000	8.49G-9.60G	1.0m	1.0u	3.0u	1.3Ø	200m	60m	1.0 Ø	TRDL	§	WA	1.0k
37♦	JAN7381	9050M	200000 *	8.49G-9.61G			3.0u*	1.2	300m*	80m*	800m$	TRDL	BP	WA	
38	7381/BL979	9050M	200000	8.49G-9.61G	1.0m	1.0u	3.0u	1.3Ø	100m	10m	1.0 Ø	TRDL	§	WA	500
39	6564/BL71	9050M	250000	8.50G-9.60G	1.0m	1.0u	7.0u	1.3Ø	100m	20m	1.0 Ø	TRDL	§	WA	500
40#	BS316	9050M	250000	8.50G-9.60G			3.0u*	1.3	100m*	15m*	1.0	TRDL			
41#	BS918	9050M	250000 *	8.50G-9.60G			3.0u*	1.3	100m*	15m*	1.0	TRDL	BP	WA	
42#	T353	9050M	250000 *	8.50G-9.60G			2.0u*					TRDL	BP		
43▼	MXC44#1	9050M	500000	8.500G-9.600G	80u							TRDL	BP		
44	6596/BL317	9270M	250000	8.94G-9.60G	1.0m	1.0u	7.0u	1.3Ø	100m	20m	1.0 Ø	TRDL	$	WA	500
45	6613/BL324	9270M	250000	8.94G-9.60G	1.0m	1.0u	7.0u	1.3Ø	100m	20m	1.0 Ø	TRDL	$	WA	500
46	BTR198A	9270M	250000	8.94G-9.60G	1.0m	1.0u	3.0u	1.3Ø	100m	10m	900mØ	TRDL	$	WA	2.0k
47♦#	F3042	9300M	250k*	9.000G-9.600G	1.0m		3.0u*				1.1	TRDL	BP	WA	
48#	T352	9350M	250000 *	9.20G-9.50G			7.0u*					TRDL	BP$		
49▼	MXT125	9375M	20000	9.325G-9.425G	1.0m							TRDL	BPCP		
50▼	MXC32	9375M	250000	9.250G-9.500G	1.0m							TRDL	BP		
51#	T337	9530M	100000 *	9.40G-9.65G			1.5u*					TRDL	BP		
52#	BS200	9590M	200000 *	9.18G-10.00G			3.0u*	1.3	300m*	100m*	800m	TRDL	BP	WA	
53▼	MXC35	9900M	1000	9.800G-10.000G	1.0m							TRDL	BP		
54▼	MKT33	15550M	100000	15.300G-15.800G	1.0m							TRDL	BP		
55♦#	TV3372	16000M	10k*	15.500G-17.500G	1.0m		3.0u*				1.0	TRDL		WA	
56	6560	16000M	100000 *	15.00G-17.00G			10u*	1.4	100m*	20m*	1.4	TRDL	BPCM	WA	
57	JAN6560	16000M	100000 *	15.00G-17.00G	1.5m	500n	10u*	1.4	100m*	20m*	800m$	TRDL	BP	WA	500 †
58	6560/BL35	16000M	100000	15.00G-17.00G	1.0m	500n	10u	1.3Ø	100m	20m	1.2 Ø	TRDL	§	WA	500
59	BES042	16400M	1000	15.80G-17.00G	1.0m	3.0u		1.3Ø			20 Ø	TRDL	$	WA	
60	BTR141	16400M	60000	15.8G-17.00G	1.0m	400n	1.0u	1.3Ø	100m	20m	600mØ	TRDL	$	WA	1.0k
61	JANDOD004	16400M	60000 *	15.80G-17.00G		1.1u	1.0u*	1.4	500m*	100m*	600m	TRDL	BP$	WA	1.0k†
62	BLS531	16467M	12500	16.410G-16.525G	10m	1.0u	1.8u	1.3Ø	100m	20m	600mØ	TRDL	$	WA	500
63▼	MKT36	16500M	4000	16.000G-17.000G	1.0m							TRDL	BPCP		
64	BTR167	16500M	75000	15.90G-17.10G	2.0m	3.0u	700n	1.3Ø	100m	20m	1.0 Ø	TRDL	§	WA	1.0k
65	BL934A	16500M	100000	16.00G-17.00G	1.5m	500n	10u	1.3Ø	100m	20m	1.2 Ø	TRDL	§	WA	500
66	BTR145	16500M	100000	16.00G-17.00G	1.5m	2.0u	800n	1.3Ø	50m	20m	800mØ	TRDL	§	WA	1.0k
67	BTR156	16500M	100000	16.00G-17.00G	1.0m	2.0u	800n	1.3Ø	100m	20m	800mØ	TRDL	$	WA	1.0k
68#	T365	16500M	100000 *	16.00G-17.00G			1.5u*					TRDL	BP		
69♦#	TV3309	16500M	100k*	16.000G-17.000G	1.0m		10u*				1.2	TRDL		WA	
70♦#	TV3362	16500M	100k*	16.000G-17.000G	1.0m		3.0u*				1.0	TRDL	BP	WA	
71	BTR202	16500M	125000	16.25G-16.75G	1.0m	2.0u	800n	1.3Ø	100m	20m	800mØ	TRDL	§	WA	1.0k
72	BTR147	16850M	60000	16.60G-17.10G	1.2m	300n	2.0u	1.3Ø	200m	50m	600mØ	TRDL	§	WA	500
73	BLT036	24000M	40000	23.50G-24.50G	100u	20n	1.5u	1.3Ø	100m	20m	1.0 Ø	TRDL	§	WA	500
74	6685	34875M	20000 *	33.50G-36.25G			5.0u*	1.3	100m*	20m*	1.4	TRDL	BPCM	WA	
75	JANDOD010		35000 *		35m	3.0u	2.0u*	1.35	100m*	100m*	500m	TRL	BPPS	WA	2.0k†
76	VLL1000	1305M	1000	1.25G-1.36G	1.0m	4.0u	20u	1.3Ø	100m	20m	400mØ	TRL	SSPS	CO	2.0k
77	VDS1019	2750M	1.0M	2.60G-2.90G	590u	600n	5.0u	1.3Ø	150m	40m	500mØ	TRL	PS	WA	2.0k
78	VDS1007	2800M	100000	2.70G-2.90G	375u	1.0u	3.0u	1.3Ø	100m	50m	500mØ	TRL	PS	WA	2.0k
79	VDS1011	2800M	500000	2.70G-2.90G	640u	4.0u	15u	1.3Ø	50m	20m	800mØ	TRL	PS	WA	2.0k
80	VDS1006	2800M	750000	2.78G-2.82G	800u	500n	20u	1.3Ø	50m	40m	500mØ	TRL	PS	WA	2.0k
81	VDS1022	2814M	10000	2.664G-2.964G	1.0m	1.0u	5.0u	1.3Ø	100m	30m	700mØ	TRL	PS	WA	2.0k
82	VDS1014	2816M	750000	2.664G-2.969G	1.0m	1.0u	5.0u	1.3Ø	150m	40m	500mØ	TRL	PS	WA	2.0k
83	JAN8922	2850M	50000 *	2.60G-3.10G	30m	36u	20u*	1.35	150m*	60m*	400m	TRL	CPPS	WA	2.0k†
84	VDS1015	3000M	15000	2.90G-3.10G	3.3m	20u	12u	1.3Ø	100m	50m	500mØ	TRL	PS	WA	2.0k
85	VFS9500	3000M	15000	2.90G-3.10G	3.3m	20u	8.0u	1.3Ø	100m	50m	900mØ	TRL	FP	WA	8.7k
86	VFS9503	3000M	15000	2.90G-3.10G	1.0m	1.0u	20n	1.3Ø	200m	100m	1.0 Ø	TRL	FP	WC	8.7k
87	VFS9506	3000M	20000	2.90G-3.10G	1.0m	1.0u	20u	1.3Ø	100m	20m	1.4 Ø	TRL	FP	WC	8.7k
88	VDS1003	3000M	50000	2.90G-3.10G	7.0m	30u	20u	1.3Ø	150m	60m	500mØ	TRL	PS	WA	2.0k
89▼#	BS168	3050M	50 *	3.020G-3.080G	CW		6.0u	1.2	40m	50m⍁	400m	TRL	BP	WA	
90	VDS1013	3050M	750000	2.90G-3.20G	1.0m	1.0u	15u	1.3Ø	100m	20m	800mØ	TRL	PS	WA	2.0k
91#	BS194	3050M	1.0M	3.03G-3.07G			10u*	1.3	20m*	20m*	800m	TRL	PS		
92	VDS1020	3110M	15000	2.96G-3.26G	20m	110u	20u	1.3Ø	200m	15m	700mØ	TRL	PS	WA	2.0k
93	VFS9505	3250M	15000	3.10G-3.40G	20m	15u	10u	1.3Ø	200m	50m	900mØ	TRL	FP	WA	8.7k
94	VDS1021	3250M	75000	3.10G-3.40G	13m	6.5u	16u	1.3Ø	100m	50m	600mØ	TRL	PS	WA	2.0k
95	VFS9507	3250M	75000	3.10G-3.40G		6.5u	5.0u	1.3Ø	100m	50m	900mØ	TRL	FP	WC	8.7k
96	VDS1018	3300M	10000	3.10G-3.50G	140m	6.0u	8.0u	1.3Ø	100m	50m	600mØ	TRL	PS	WA	2.0k
97	VFX9507	4692M	80000	9.305G-9.385G	1.3m	5.5u	200m	1.3Ø	100m	50m	800mØ	TRL	FP	WA	
98#	BS190	5425M	250000 *	5.35G-5.50G			15u*	1.2	400m*	60m*	600m	TRL	BPPS	WA	
99	VDC1026	5445M	300000	5.24G-5.65G	1.0m	1.0u	10u	1.3Ø	100m	60m	800mØ	TRL	PS	WA	2.0k
100	VDC1006	5480M	500000	5.25G-5.71G	1.0m	5.0u	8.0u	1.3Ø	100m	50m	600mØ	TRL	PS	WA	1.0k
101	VDC1020	5500M	50000	5.25G-5.75G	6.0m	1.0u	6.0u	1.3Ø	100m	50m	600mØ	TRL	PS	WA	2.0k
102	VDC1025	5650M	15000	5.40G-5.90G	2.0m	20u	20u	1.3Ø	100m	100m	350mØ	TRL	PS	WA	2.0k
103	VDC1032	5650M	20000	5.40G-5.90G	30m	7.5u	2.0u	1.3Ø	100m	50m	1.0 Ø	TRL	PS	WA	2.0k
104	JAN8919	5650M	300000 *	5.395G-5.905G	1.0m	1.0u	5.0u*	1.9	100m*	50m*	800m	TRL	PSBP	WA	2.0k†
105	VDC1008	5650M	300000	5.40G-5.90G	1.0m	1.0u	8.0u	1.3Ø	100m	60m	700mØ	TRL	PS	WA	2.0k
106	VDC1029	5650M	300000	5.40G-5.90G	1.0m	1.0u	5.0u	1.3Ø	100m	70m	800mØ	TRL	PS	WA	2.0k
107▼#	BS806F	8800M	50 *	8.500G-9.100G	CW			1.2			500m	TRL	BF	WA	
108#	WF402L	8800M	50000 *	8.50G-9.10G	1.0m		2.0u*	1.3		100m*⍁	800m	TRL		WA	
109#	BS816	8800M	200000 *	8.50G-9.10G			3.0u*	1.3	20m*	30m*	800m	TRL	BP	WA	
110▼#	BS960	8800M	200000 *	8.750G-8.850G	CW		250n*	1.2	100m	50m⍁	800m	TRL	BPPS	WA	

3. DUPLEXER TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)INCIDENT POWER (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 INCIDENT POWER (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. PULSE WIDTH (s)	RECOVERY TIME (s)	MAX. VSWR	LEAKAGE		MAX. INSERTION LOSS (dB)	DESCRIPTION			
									SPIKE (ergs)	FLAT (W)		1 TUBE TYPE	FEATURES	OUTPUT	LIFE (hr)
1#	BS950	8875M	50000 *	8.60G-9.15G			6.0u*	1.4	20m	30m*	1.0	TRL			
2#	BS820	8900M	200000 *	8.50G-9.30G			3.0u*	1.3	20m	30m*	800m	TRL			
3#	BS162	9000M	40000 *	8.90G-9.10G			3.0u*	1.4	50m*	30m*	800m	TRL	PS	WA	
4#	BS828	9000M	200000 *	8.50G-9.50G			1.0u*	1.3	20m*	30m*	1.0	TRL	BP	WA	
5#	BS886	9025M	200000 *	8.80G-9.25G			3.0u*	1.4	20m*	40m*	1.0	TRL	BP	WA	
6	VLX1004	9050M	800	8.50G-9.60G	1.2m	1.0u	500n	1.3Ø	50m	50m	600mØ	TRL	§	WA	
7	VLX1006	9050M	800	8.49G-9.61G	1.2m	1.0u	500n	1.3Ø	50m	50m	600mØ	TRL	PS	WA	
8	VDX1086	9050M	25000	8.50G-9.60G	1.0m	2.5u	1.5u	1.3Ø	100m	50m	800mØ	TRL	PS	WA	2.5k
9	VDX1052	9050M	40000	8.50G-9.60G	1.0m	2.4u	2.0u	1.3Ø	10m	40m	1.0 Ø	TRL	PS	WA	2.0k
10	VDX1001A	9050M	50000	8.50G-9.60G	1.0m	4.4u	3.0u	1.3Ø	100m	50m	800mØ	TRL	PS	WA	2.0k
11	VDX1036	9050M	50000	8.50G-9.60G	1.0m	1.0u	1.5u	1.3Ø	30m	25m	900mØ	TRL	PS	WA	2.0k
12	VDX1006	9050M	100000	8.50G-9.60G	1.0m	4.2u	3.0u	1.3Ø	100m	50m	800mØ	TRL	PS	WA	2.0k
13	VDX1085	9050M	250000	8.50G-9.60G	1.0m	2.5u	3.0u	1.3Ø	50m	10m	1.1 Ø	TRL	PS	WA	2.5k
14	VDX1025	9050M	300000	8.50G-9.60G	333u	250n	1.5u	1.3Ø	30m	25m	900mØ	TRL	PS	WA	2.0k
15	VDX1051	9050M	300000	8.50G-9.60G	1.0m	2.4u	2.0u	1.3Ø	50m	10m	1.0 Ø	TRL	PS	WA	2.0k
16▼#	BS500	9080M	100000 *	8.980G-9.180G	CW		3.0u	1.4	50m	50m⧄	1.0	TRL	BPPS	WA	
17	VLX1001	9100M	50	9.00G-9.20G	100m	1.0u	500n	1.3Ø	50m	30m	600mØ	TRL	§	WA	
18	VLX1009	9200M	1500	9.15G-9.25G	6.6m	500n	800n	1.3Ø	120m	80m	900mØ	TRL	§	WA	
19	JANDOD008	9200M	100000 *	8.75G-9.65G		2.0u	2.0u*	1.3	50m*	30m*	800m	TRL	CPPS	WA	2.0k†
20#	BS968	9250M	50000 *	9.00G-9.50G			3.0u*	1.3	50m*	30m*	1.0	TRL	BPPS	WA	
21#	BS974	9250M	150000 *	9.00G-9.50G			3.0u*	1.3	50m*	30m*	1.0	TRL	BPPS	WA	
22#	BS254	9290M	110000 *	9.24G-9.34G			3.0u	1.4	50m*	30m*	800m	TRL	PS	WA	
23▼#	BS806B	9300M	50 *	9.200G-9.400G	CW						500m	TRL	BP	WA	
24▼#	BS806E	9300M	50 *	9.000G-9.600G	CW						500m	TRL	BP	WA	
25#	BS122	9300M	40000 *	9.25G-9.35G			5.0u	1.4	500m*	30m*	800m	TRL	BPPS	WA	
26#	BS258	9300M	100000 *	9.00G-9.60G			3.0u	1.4	50m*	30m*	1.0	TRL	PS	WA	
27▼#	BS264	9300M	100000 *	9.000G-9.600G	CW		3.0u	1.4	50m	50m⧄	1.0	TRL	BPPS	WA	
28#	BS882	9345M	20000 *	9.30G-9.39G			4.0u*	1.4	50m	50m*	800m	TRL		WA	
29#	WF404L	9350M	50000 *	9.00G-9.70G	1.0m		2.0u*	1.3		100m*⧄	800m	TRL		WA	
30#	BS814	9350M	200000 *	9.00G-9.70G			3.0u*	1.3	20m*	30m*	800m	TRL	BP	WA	
31#	BS952	9355M	60000 *	9.305G-9.405G			3.0u*	1.3	100m	50m*	700m	TRL	PS	WA	
32#	BS108	9375M	60000 *	9.325G-9.425GØ			3.0u*	1.4	200m*	50m*	800m	TRL	PS	WA	
33	VDX1047	9387M.	75000	9.325G-9.450G	1.0m	1.0u	1.5u	1.3Ø	50m	40m	800mØ	TRL	PS	WA	2.0k
34▼#	BS806A	9400M	50 *	9.300G-9.500G	CW		3.0u*	1.3	20m	50m⧄	800m	TRL	BP	WA	
35▼#	BS806G	9400M	50 *	9.300G-9.500G	CW		3.0u*	1.3	20m	50m⧄	800m	TRL	BP	WA	
36#	BS256	9400M	40000 *	9.30G-9.50G			3.0u	1.4	50m*	30m*	800m	TRL	PS	WA	
37#	BS958	9400M	40000 *	9.30G-9.50G			3.0u*	1.4	50m*	30m*	800m	TRL	PS	WA	
38#	BS908	9400M	75000 *	9.25G-9.55G*			6.0u*	1.4	80m*	20m*	1.0	TRL	MT	WA	
39#	TL363	9400M	100000 *	9.30G-9.50G			3.0u*				1.0	TRL	BP		
40#	TL368	9400M	100000 *	9.30G-9.50G			3.0u*				1.5	TRL	PS		
41#	BS130	9400M	200000 *	9.30G-9.50G			3.0u*	1.3	20m*	30m*	800m	TRL	BP	WA	
42#	BS830	9400M	200000 *	9.30G-9.50G			3.0u*	1.3	20m*	30m*	700m	TRL	BP	WA	
43▼#	BS806C	9410M	50 *	9.310G-9.510G	CW		4.0u*	1.3	20m	50m⧄	800m	TRL	BP	WA	
44▼#	BS806D	9410M	50 *	9.245G-9.575G	CW		4.0u*	1.4	20m	50m⧄	1.0	TRL	BP	WA	
45#	QF451LA	9410M	1000 †	9.26G-9.56G*			4.0u*	1.4	50m*		1.2	TRL		WA	
46#	BS844	9410M	100000 *	9.31G-9.51G	1.0m			1.3	20m*	30m*	1.0	TRL		WA	
47#	BS812	9410M	200000 *	9.32G-9.50G			3.0u*	1.3	20m*	30m*	800m	TRL	BP	WA	
48	VDX1071	9450M	10000	9.325G-9.575G	1.0m	1.0u	1.5u	1.3Ø	50m	50m	800mØ	TRL	PS	WA	1.0k
49	VFX9503	9450M	50000	9.30G-9.60G	1.0m	1.0u	100n	1.3Ø	100m	50m	1.0 Ø	TRL	FP	WA	
50	VFX9506	9500M	10000	9.20G-9.80G	1.0m	1.0u	200n	1.3Ø	100m	50m	1.0 Ø	TRL	FP	WA	
51#	BS132	9550M	40000 *	9.40G-9.70G			3.0u	1.4	50m*	30m*	800m	TRL	PS	WA	2.1
52▼#	BS896	9600M	1000 †	9.500G-9.700G	CW		3.0u*	1.3	10m	50m⧄	800m	TRL	BPPS	WA	
53#	WF412L	9600M	50000 *	9.30G-9.90G	1.0m		2.0u*	1.3		100m*⧄	800m	TRL		WA	
54#	BS826	9600M	200000 *	9.30G-9.90G			3.0u*	1.3	20m*	30m*	800m	TRL	BP	WA	
55	VFX9500	9640M	2500	9.28G-10.00G	12m	1.0u	500n	1.3Ø	20m	20m	800mØ	TRL	FP	WA	
56#	BS818	9700M	200000 *	9.40G-10.00G			3.0u*	1.3	20m*	30m*	800m	TRL	BP	WA	
57	VFU9502	16000M	10000	15.825G-16.175G	3.0m	250n	700n	1.3Ø	100m	50m	1.5 Ø	TRL	FP	WA	2.0k
58	VLU1000	16150M	1600	15.90G-16.40G	1.0m	300n	1.0u	1.3Ø	100m	75m	1.5 Ø	TRL	SSPS	WA	2.0k
59	VLU1002	16300M	100000	16.30G	20u	500n	300n	1.3Ø	100m	50m	500mØ	TRL	SSPS	WA	2.0k
60	VDU1014	16400M	10000	15.80G-17.00G	1.0m	1.0u	700n	1.3Ø	100m	40m	1.0 Ø	TRL	PS	WA	2.0k
61	VDU1015	16400M	60000	15.80G-17.00G	1.0m	1.0u	700n	1.3Ø	50m	20m	1.0 Ø	TRL	PS	WA	2.0k
62	JANDOD020	16460M	12500 *	16.16G-16.76G		2.0u	800n*	1.3	100m*	100m*	1.0	TRL	PS	WA	1.0k†
63	VDU1002	16500M	12500	16.20G-16.80G	1.0m	2.5u	1.0u	1.3Ø	150m	50m	1.0 Ø	TRL	PS	WA	2.0k
64	VFU9500	16500M	15000	15.80G-17.20G	1.0m	500n	200n	1.3Ø	100m	50m	1.5 Ø	TRL	FP	WA	8.7k
65	VDU1046	16500M	100000	15.50G-17.50G	1.0m	220n	1.0u	1.3Ø	50m	20m	1.2 Ø	TRL	PS	WA	2.0k
66	VDU1001	16500M	125000	16.20G-16.80G	1.0m	2.5u	1.0u	1.3Ø	100m	20m	1.0 Ø	TRL	PS	WA	1.0k
67	VDK1000	24000M	5000	23.50G-24.50G	100u	20n	200n	1.3Ø	50m	50m	700m	TRL	PS	WA	2.0k
68▼#	BS60	33000M	75000	30.000G-36.000G			6.0u	1.3	20m		1.5	TRL		WA	
69▼#	BS70	33000M	75000	30.000G-36.000G			6.0u	1.3	20m		1.5	TRL		WA	
70#	WF61L	34200M	20000 *	33.20G-35.20G			1.0u*	1.5	20m*		1.5	TRL		WA	
71♦	JANDOD021	16460M	125000 *	16.16G-16.76G		2.0u	800n*	1.3	100m*	100m*	400m$	TRLD	CPPS	WA	1.0k†
72♦	JANDOD022	16460M	125000 *	16.16G-16.76G		2.0u	800n*	1.3	100m*	100m*	400m$	TRLD	CPPS	WA	1.0k†

4. MANUFACTURERS AND THEIR TYPE NUMBERS

IN ORDER OF MANUFACTURER
AND TYPE NUMBER

ALGG

2K25
723A/B
6344
MG1500
TK6
TK8
TK61
TK760
TL4
TL6
TL8101
TL16000
YH1000
YH1050
YH1120
YH1131
YH1150
YH1160
YH1181
YH1190
YH1191
YH1192A
YH1192B
YH1193
YH1200
YH1202
YH1203
YJ1210
YJ1230
YJ1400
YJ1460
YJ1461
YK1020
YK1021
YK1023
YK1030
YK1050
YK1081
YK1082
YK1100
YK1120

APX

2J42
2J55
2K25
2M53
2M66
2M88
4J50
4J52
4J52A
5J26
JAN5J26
725A
5586
JAN5586
5657
JAN5657
6027H
6521
6589
7008
7090
7093
8798
JAN8798
55335
DX206
DX260
DX267
DX276
DX285
DX286
DX290
DX342
DX343
DX368
DX373
DX401
DX423
DX450
DX452
DX453
DX481
DX482
JP9-2.5
JP9-2.5D
JP9-2.5E
JP9-2.5F
JP9-2.5H
JP9-7A
JP9-7D
JP9-7L
JP9-15
JP9-15D
JP9-18
JP9-75
JP9-250
KS9-20B
KS9-20D
KS9-20G
KS9-40
KS9-40B
KS9-40D
YJ1060
YJ1071
YJ1110
YJ1120
YJ1121

APX cont.

YJ1150
YJ1160
YJ1162
YJ1191
YJ1200
YJ1250
YJ1280
YJ1300
YJ1390
YJ1420
YJ1440
YJ1480
YJ1490
YK1001
YK1002
YK1010
YK1151

BTC

JAN2K48
JAN5721
JAN6236
JAN6390
BT237D
BT860
BT1315
BT1316
BT6236A
BT6390A
BT6390B
FAA237D

EEVB

2J42
JAN2J42
2J42H
2J55
JAN2J55
2J70A
2K28
3K3000LQ
3K50000LF
4J31
4J32
4J33
4J34
4J35
4J43
4J44
4J52A
4J53
4KM50000LQ
4KM50000LR
5586
5657
6027
6027H
6861
7182
8356
BM25LB
BM25LC
BM25LD
BM1002
BM1003
BM1004
BM1005
BM1006
BM1026
BM1027
BM1028
BM1029
BM1030
BM1031
BM1032
BM1033
BM1034
BM1035
BM1036
BM1037
BM1038
BM1039
BM1040
BS48
BS52
BS52A
BS58
BS60
BS70
BS78
BS80
BS82
BS84
BS92
BS104
BS108
BS110
BS114
BS116
BS118
BS122
BS128
BS130
BS132
BS138
BS148
BS156
BS158

EEVB cont.

BS162
BS168
BS170
BS172
BS180
BS190
BS192
BS194
BS196
BS200
BS202
BS204
BS206
BS216
BS220
BS224
BS228
BS248
BS254
BS256
BS258
BS264
BS286
BS310
BS314
BS316
BS324
BS342
BS344
BS384
BS386
BS390
BS412
BS426
BS430
BS440
BS450
BS452
BS456
BS462
BS466
BS500
BS608A
BS608B
BS616A
BS616B
BS624A
BS624B
BS624C
BS624D
BS624E
BS624K
BS624L
BS624M
BS624N
BS624P
BS630
BS640
BS644
BS646
BS648
BS658
BS660
BS662
BS674
BS676
BS678
BS698
BS702
BS708
BS710
BS714
BS716
BS718
BS720
BS724
BS726
BS728
BS730
BS732
BS750
BS752
BS758
BS762
BS800
BS806A
BS806B
BS806C
BS806D
BS806E
BS806F
BS806G
BS806H
BS810
BS812
BS814
BS816
BS818
BS820
BS822
BS824
BS826
BS828
BS830
BS832
BS834
BS836
BS838
BS840
BS842
BS844
BS846

EEVB cont.

BS848
BS852
BS856
BS858
BS860
BS870
BS872
BS876
BS880
BS882
BS886
BS892
BS894
BS896
BS904
BS908
BS910
BS912
BS914
BS916
BS918
BS924
BS928
BS930
BS932
BS940
BS946
BS950
BS952
BS956
BS958
BS960
BS966
BS968
BS970
BS974
BS986
BS990
CV2362
CV2363
CV2364
CV2365
CV2366
CV2367
CV2368
K211
K300
K302
K311
K324
K335
K337
K342
K347A
K351
K357
K359
K361
K361B
K365
K370
K371
K372
K376
K377
K383
K384
K385
K386
K390
K391
K391A
K3004
K3005
K3006
K3007
K3014
K3015
K3016
K3017
K3018
K3019
K3033
K3035
K3038
K3039
K3066
K3067
K3069
K3071
K3073
K3074
K3076
K3077
K3079
K3080
K3081
K3082
K3083
K3084
K3090
K3091
K3094
K3095
K3096
K3097
K3098-6975
K3099
K3111
K3113
K3114A
K3114B

EEVB cont.

K3114C
K3114E
K3114F
K3118
K3217
K3218
K3219
K3282
K3283
K3284
K3382
K3383
K3384
KY366AT
KY366BT
KY366CDT
KY366CT
KY366DT
KY366ET
KY366GT
KY366JT
KY367AT
KY367BT
KY367CT
KY367DT
KY367ET
KY367GT
KY367JT
M503A
M504
M505
M506A
M513A
M513B
M515
M521
M523
M525
M529
M537A
M538A
M539
M540B
M549
M554
M561
M565
M566
M569
M570
M573
M574
M575
M577B
M578B
M579
M581
M586
M592
M595B
M596
M597
M598B
M599
M5005
M5015
M5019
M5020
M5021
M5022
M5023
M5024
M5025
M5028
M5030A
M5031
M5032
M5033
M5034A
M5035
M5039
M5041
M5042S
M5043
M5044
M5048
M5051
M5052
M5053
M5054
M5055
M5057
M5058
M5059
M5060
M5061
M5062
M5063-2J70B
M5064H
M5065
M5067
M5067H
M5068
M5075
M5076
M5077
M5079A
M5080
M5081
M5083A
M5084
M5085

EEVB cont.

M5086
M5087
M5089
M5091A
M5094
M5097
M5100
M5101
M5105
M5108
M5109
M5111
M5113
M5115
M5117
M5118
M5119
M5123
M5124
M5125
M5126A
M5133
M5134
M5135
M5136
M5137
M5138
N1010
N1016M
N1017M
N1029
N1033
N1034
N1038
N1042M
N1045M
N1047M
N1055
N1056
N1061
N1065
N1070
N1071
N1072
N1073
N1073Z
N1075
N1077
N1078
N1079
N1080
N1081
N1082
N1083
N1086
N1093
N1094
N1095
N10000
N10001-1
N10001-2
N10002
N10003
N10004
N10007

EMIB

CV238
CV2116
CV2346
CV6001
CV6002
CV6071
JP9-2.5D
JP9-2.5E
PT1001
PT1006
PT1010
PT1015
PT1016
PT1020
PT1024
PT1055
PT1120
PT1130
PT1140
PT1150
R5146
R5222
R6010
R6015
R9518
R9521
R9546
R9559
R9602
R9621
R9622
R9625
R9626
R9674
R9675
R9676
R9687
R9689
R9696
R9701
R9729
R9760
SFD349

EMIB cont.

SFD377A
VA838B
VA876
VA925E
VA943B
VA944B
VA945B
VA946A
VA947A
VA948A
VA950A
VA951A
VA952A
VA953A/B
VA954A/B
VA955A/B
YJ1120
YJ1121

FERB

LY100
SY31
SY41
SY60
SZ22
SZ31

FERS

JF20
JF20D
JF71
JF72
LY30
NF42
NF43
QF37
QF50
QF451
QF451LA
QF451M
QF451N
VF10
VF11
VF20
VF25
VF30
VF55
WF21H
WF22A
WF22B
WF23A
WF23B
WF42
WF43
WF49A
WF60
WF61L
WF70
WF71
WF402
WF402L
WF404L
WF407L
WF409
WF412L

GESY

ZM6231
ZM6265A
ZM6276
ZM6277

HAC

214H
219H
233H
235H
239H
240H
242H
254H
256H
261H
262H
263H
265H
267H
268H
271H
272H
275H
276H
277H
279H
280H
283H
284H
285H
287H
288H
291H#1
291H#2
291H#3
292H

HAC cont.

293H
294H
295H
296H
297H
298H
307H
308H
310H
414H
417H
417HD
418H
419H
543H
544H
551H
554H
555H
559H
560H
562H#1
562H#2
564H
564HD
568H
570H
614H
618H
621H
622H
634H
635H
636H
639H
640H
641H
644H
648H
648HD
648HS
656H
662H
710H
718H
719H
722H
723H
725H
739H
745H
748H
750H
751H
752H
756H
757H
759H
760H
763H
767H
771H
771HD
771HS
774H
776H
781H
783H
784H
785H01
785H02
786H
790H
792H
796H
812H
813H
814H
817H
819H
820H
830H
832H
835H
837H
838H
839H
844H
848H
848HD
848HS
851H
856H
861H
863H
866H
911H
912H
1160H
1177H01F
1177H02F
1177H03F003
1177H03F005
1177H03F007
1177H03F
1177H04F
1177H05F
1177H06F
1177H07F
1177H08F
1177H09F
1177H10F

4. MANUFACTURERS AND THEIR TYPE NUMBERS

IN ORDER OF MANUFACTURER
AND TYPE NUMBER

HAC cont.

1190H
1192H
1195H
1197H
1200H
1202H
1210H
1212H
1216H
1218H
1220H
1222H
1224H
1226H
1233H
1234H
1235H
1236H
1277H01F
1277H02F
1277H03F
1277H04F001
1277H04F002
1277H04F
1277H09F
7640
JAN7640
8713H
8760H#1
8760H#2

HITJ

1W31
1W65
1W67
1W80
2M45
2M53H
2M121
2M131
2M140
2M141
2M143
2M150
2M161
2M163

ITT

JAN8493
8493/F2913
F2084
F2085
F2086
F2087
F2088
F2094
F2097
F2098
F2099
F2101
F2104
F2106
F2107
F2112
F2118
F2120
F2124
F2125
F2128
F2533
F2544
F2547
F2548
F2552
F2553
F2554
F2555
F2556
F2557
F2576
F2577
F2578
F2909
F2910
F2911
F2912
Z171/50Z
Z178/150Z
Z188/150Z
Z211/1G
Z237-1KW
Z239/1G

LIT

2J42
JAN2J42
2J42H
JAN2J42H
4J50
4J52A
JAN4J52A
JAN6BL6
JAN6BM6
JAN6BM6A
5780
JAN5780

LIT cont.

6233
6344A
JAN6344A
6510
JAN6510
6543
JAN6543
6543A
7006
7008
7111
JAN7111
JAN7156A
7208
7208B
JAN7208B
7449A
JAN7460
7504
7619
7692
7950
8366
8468
JAN8855
JAN8880
JAN8881
JAN8882
8945
8955
L2302
L2303
L2327
L2328
L2329
L2330
L2331
L2332
L2333
L2335
L2337
L2338
L2339
L2341
L2342
L2343
L2344
L2345
L2346
L2347
L2348
L2349
L2352
L2357
L2360
L2361
L2362
L2363
L2364
L2365
L2366
L2367
L2369
L2370
L2371
L2372
L2374
L2375
L2376
L2377
L2378
L2379
L2380
L2381
L2382
L2383
L2384
L2385
L2387
L3028D
L3029A
L3029B
L3029C
L3029D
L3030
L3030B
L3030C
L3030D
L3035
L3036A
L3036B
L3036E
L3036F
L3036G
L3039
L3039A
L3039D
L3039E
L3039F
L3039G
L3039H
L3039I
L3039J
L3039K
L3039L
L3039M
L3039N
L3039P
L3039R
L3058
L3083
L3089B

LIT cont.

L3101A
L3103
L3105
L3156
L3189
L3225
L3234
L3250
L3268
L3327
L3358
L3359
L3403
L3431A
L3456
L3459
L3460
L3461
L3462
L3463
L3464
L3465
L3467
L3468
L3496A
L3500
L3501
L3502
L3503
L3504
L3505
L3506
L3507
L3508
L3509
L3601
L3611
L3635
L3645
L3654A
L3660
L3661
L3668H
L3694
L3714
L3721
L3724
L3724A
L3726
L3728
L3729A
L3738
L3742
L3813
L3858
L3890A
L3897
L3910
L3915
L3928
L3943
L3944
L3956
L3957
L3958
L3958A
L3971
L3972
L3975
L3978
L3987
L3989
L3990
L3998
L4064A
L4193C
L4370
L4396A
L4419
L4451
L4472
L4495
L4497
L4502
L4516
L4527
L4547
L4555-8902
L4575
L4581
L5001
L5007
L5008
L5009
L5010
L5011
L5013
L5014
L5015
L5022
L5035
L5036
L5042
L5043
L5045
L5047
L5049
L5070
L5071
L5072
L5073
L5080

LIT cont.

L5081
L5083
L5089
L5095
L5113
L5115
L5116
L5117
L5121
L5123
L5126
L5134
L5135
L5137
L5145
L5154
L5155
L5157
L5160
L5191
L5200
L5201
L5209
L5211
L5218
L5219
L5220
L5223
L5224
L5225
L5227
L5235
L5237
L5241
L5250
L5252
L5253
L5260A
L5261A
L5263
L5271
L5273
L5274
L5275
L5280
L5281
L5283
L5284
L5293
L5316
L5317
L5318
L5320
L5322
L5326
L5328
L5330
L5334
L5336
L5337
L5339
L5341
L5346
L5347
L5359
L5365
L5371
L5372
L5373
L5380
L5385
L5391-01
L5391-51
L5391-52
L5391-53
L5391-54
L5394
L5396
L5398
L5404
L5405
L5408
L5411
L5412
L5416
L5418
L5420
L5422
L5432
L5435
L5436
L5437
L5438
L5444
L5486
L5487
L5489
L5495
L5502
L5521
L5540
L5541
L5542
L5546
L5548
L5550
L5551
L5555
L5558
L5559
L5560
L5561

LIT cont.

L5563
L5564
L5566
L5567
L5568
L5569
L5570
L5571
L5573
L5574
L5575
L5576
L5577
L5579
L5581
L5584
L5585
L5586
L5588
L5589
L5590

LMTF

KL415
MG9T4
MG60T1
MG86T1
SAL89

MEC

8778
8779
8780
8829
M2102G
M2103NA
M2105GA
M2105R
M2105S
M2106G
M2112-O
M2112H
M2112I
M2114H
M2114I
M2201B
M2201BA
M2201BB
M2201K
M2203E
M2204AE
M2204AG
M2204E
M2403E
M2404-O
M2404I
M2404K
M2404KA
M2404P
M2404Q
M2405F
M2411B
M4260
M4268
M4273
M4278
M4325
M4326
M4369
M4383A
M4429
M4444
M5161
M5216
M5217
M5236
M5237
M5311
M5311K
M5312
M5312K
M5313
M5313K
M5314
M5314K
M5318
M5333
M5350
M5351
M5352
M5353
M5354
M5355
M5362
M5364
M5365
M5366
M5367
M5368
M5369
M5370
M5371
M5375
M5376
M5377
M5387
M5389
M5390

MEC cont.

M5391
M5392K
M5462K
M5477K
M5478K
M5479K
M5480K
M5508K
M5515
M5517
M5518
M5519
M5526
M5539
M5549
M5572
M5600
M5605
M5605K
M5608
M5610
M5613K
M5616
M5633
M5634
M5635
M5648K
M5650
M5654B
M5656
M5660C
M5662K
M5670K
M5671
M5673K
M5701
M5709
M5722K
M5723K
M5731
M5752#1
M5752#2
M5754
M5775K
M5788
M5789
M5790
M5793
M5803
M5804K
M5805K
M5806K
M5807K
M5808K
M5813
M5813A
M5827
M5837
M5848
M5916
M5919
M9152
M9152C
M9162
M9220A
M9220C
M9220G
M9220H
M9220M
M9243B
M9337
M9337A
M9345
M9346
M9350
M9351

MIC

JAN1B58A
JAN1B63A
2J42
2J42H
5789
JAN5863
JAN5864
6027
6229
6230
JAN6560
JAN7381
7521
7579
8778
8779
8780
8829
8835
8836
MA212
MA212A
MA212B
MA212C
MA212D
MA214
MA214B
MA214C
MA214D
MA217
MA217A
MA217B

MIC cont.

MA217C
MA219G
MA221A
MA221B
MA221C
MA221D
MA231A
MA231B
MA232A
MA232B
MA239
MA239A
MA239B
MA240
MA240A
MA240B
MA240C
MA241
MA245
MA246
MA246A
MA249
MA250
MA252
MA257
MA257T
MA258
MA259
MA260
MA261
MA262
MA264
MA265
MA266
MA270
MA271
MA272
MA273
MA274
MA277
MA278
MA279
MA281
MA285
MA286
MA287
MA293
MA294
MA2003
MA2009
MA2010
MA2011
MA2014
MA2015
MA2016
MA2017
MA2019
MA2023
MA2024
MA2030
MA2032
MA2033
MA2037
MA2038
MA2044
MA2045
MA2046
MA2047
MA2050
MA2055
MA2060#1
MA2060#2
MA2063
MA2064
MA2067
MA2070
MA2072
MA2074#1
MA2074#2
MA2086
MA2089
MA2089C
MA2089P
MA2801
MA2802
MA2803
MA2804
MA2805
MA2807
MA2808
MA2810
MA2811
MA2812
MA2813
MA2820
MA2822
MA2823
MA2824

MIT

.1P.5-1
.1P.35-1
.25PL.4-1.2
.25PL.4-1.2S
.25P.25-.75
.25P.25-.75S
.25P.35-1
.25P.35-1S
.5L1-2
.5LS1-3

MIT cont.

.5LS1-3S
.5LS1.2-3.6
.5LS1.2-3.6S
.5LS1.5-3
.5PL.5-1.5
.5PL.5-1.5S
.5PL.8-2.4
.5PL.8-2.4S
.5P.2-.4
.5P.2-.4S
.5P.5-1
.5P.5-1.5
.5P.25-.5
.5P.25-.5S
1L1-2R
1P.5-1
1P.5-1R
1P.5-1S
1P.25-.5
1P.25-.5S
1P.375-.75
1P.375-.75S
2C4-6S
2C6-7S
2L1-2
2L1-2S
2LS1.5-3
2LS1.5-3S
2PL.75-1.5
2PL.75-1.5S
2P.5-1
2P.5-1S
2S2-4
2S2-4S
3L1.4-1.6
3L1.8-2.1
3S2.8-3.1
5C4-5S
5C4.5-5.5S
5C5-6S
5C5.4-5.9S
5C5.5-6.5S
5C6-7S
5L1-2
5L1-2S
5PL.6-1.2
5PL.6-1.2S
5P.4-.8
5P.4-.8S
5P.35-.5
5P.35-.5S
5S2.7-2.85
5S3.4-3.7
10C4-5
10C4.5-5.5
10C5-6
10C5.5-6.5
10C6-7
10C6.5-7.5
10L1-1.5
10L1-1.5S
10L1.5-2
10L1.5-2S
10P.5-.75
10P.5-.75S
10P.75-1
10P.75-1S
10S2-3
10S2-3S
10S2.5-3R
10S2.5-3.5
10S2.5-3.5S
10S3-4
10S3-4S
10S3.5R
10SC3.5-3.5S
10SC3.5-4.5
10X7-8
10X7.5-8.5
10X8-9
10X8.5-9.6
10X9-10
50C6-7
50C6.5-7.5
50S2.5-3.5
50S3-4
50X7-8
50X7.5-8.5
50X8-9
50X8.5-9.5
50X9-10
80X8-8.5
80X8.5-9
80X9-9.5
80X9.5-10
100C3.8-4.4
100C4.4-5
100C4.8-5.4
100C5.4-5.9
100C5.9-6.4
100C6.2-6.8
100C6.8-7.4
100L1-1.2
100L1.05-1.25
100L1.05-2.5
100L1.25-1.5
100L1.5-1.8
100L1.6-2
100S2-2.6
100S2.5-3
100S2.6-3.2
100S3-3.5

4. MANUFACTURERS AND THEIR TYPE NUMBERS

IN ORDER OF MANUFACTURER AND TYPE NUMBER

MIT cont.

100S3.2-3.8
100X7.4-8.0
8512

MOVB

2J51A
BWS1
BWS2
BWX5
CV1475
CV1476
CV1477
CV1478
CV1479
CV1480
CV1481
CV1482
CV1483
CV1484
CV1485
CV1486
CV1495
CV1496
CV1497
CV1498
CV1499
CV1500
CV5134
E3080
E3389
MAG12
MAG15
MAG17
MAG19
MAG20
MAG21A
MAG21B
MAG21C
MAG22
MAG23A
MAG23B
MAG23C
MAG23D
TWC5
TWC5A
TWC5B
TWC5C
TWC14
TWC14A
TWC14B
TWC14C
TWC18
TWC27
TWC35
TWC35A
TWC35B
TWC35C
TWC37
TWC37A
TWC37B
TWC37C
TWJ20
TWJ29
TWJ30
TWJ33
TWS6
TWS7
TWS10/7642
TWS12
TWS17
TWS24
TWS25
TWS26
TWS32
TWS36
TWX8
TWX16
TWX19
TWX22
TWX28
TWX34

MULB

CV6087
CV6183
CV6223
LB6-10
LB6-10B
LB6-25
LB6-25A
YH1090
YH1170
YH1172
YH1210
YK1110
YK1151
YK1190
YK1191
YK1192
YK1210

NECJ

1AV30
1AV31
1AV32
1AV35

NECJ cont.

1AV50
1AV51
1AV52
1AV57
1AV58
1AV59
1AV60
1AV61
1AV62
1AV67
1AV68
1AV69
1AV97
1AV98
1AV99
1W20
1W20A
1W80
2AV41
2J55
2K25
2K26
2K54A
2K54C
2K54DA
4V27
4W70
4W76A
4W77
4W81
5W70
6V23
6V26AMR
6V26AR
6V26BMR
6V26BR
6V200
6V203
6V211
6V212
6V221
6V222
6W52
6W70
7V204
7V205
7V213
7V214
7V215
7V216
7V223
7V224
7V225
7V226
7V242
7V243
7V254
7V272
7V273
8V69
8V77
8V208
8V217
8V227
8V228
8V257
8V274
9V54
9V58
10V13
10V54
11V18
11V53A
11V54
11V64
11V66
11V651
11V652
11W71
11W72
12V66
13V64
13V66/LD932
13V92
15V66
15W71
25M10
5721
5780
5795
5976
6406A
6975
7484A
8855
LD550T
LD561
LD570
LD571A
LD585
LD585A
LD585B
LD588
LD597A
LD638
LD656
LD659
LD700
LD745
LD747
LD793
LD800

NECJ cont.

LD812
LD812A
LD812B
LD821
LD824
LD837
LD845
LD850
LD853
LD857
LD863
LD871
LD873
LD892
LD910
LD914
LD916
LD919
LD920
LD927
LD928
LD929
LD931
LD945
LD952
LD952A
LD958
LD4001
LD4007
LD4008
LD4009
LD4010
LD4011A/B
LD4018
LD4025A
LD4034
LD4035
LD4035A
LD4036
LD4050
LD4052A
LD4061
LD4065
LD4065A
LD4066
LD4067A
LD4070
LD4086
LD4088
LD4097
LD4103
LD4106/SFD349N
LD4107
LD4116A
LD4117C/D
LD4128
LD4130
LD4131
LD4134A/B
LD4134C/D
LD4153
LD4157
LD4166
LD4170
LD4171
LD4172/SFD325
LD4187
SFD381
V39B
VA203B
VA203H
VA504B
VA506
VA802B

NJRC

1B24A
1B27
1B35A
1B58A
1B63A
1M99
1W50
2J42
2J42A
2J42A-6027
2J42H
2J51
2J51A
2J55
2J70A
2J70B
2K25
2K26
2K45
2M12
2M41
2M47
2M76
3M90
4J52A
5J26
5M20
6BL6
6BM6
6BM6A
9M20
9M30
9M31
9M40

NJRC cont.

9M61
9M70
9M71
9M72
9M80
9M90
9X63
9X64
10M10
16M10
724B
725A
5586
5609
5863
5865/TR361
5925
5939A
6002
6022
6024/ATR387
6027
6081/ATR408
6115A
6162/ATR388
6177
6229
6322
6344
6344-QKH235
6378
6396
6940
7008
7152
7166
7208B
M159A
M177
M1222
M1223
M1224
M1225
M1226
M1227
QKS630
QKS1484
T337
T340
T341
T342
T343
T347
T350
T351
T352
T353
T356
T364
T365
T370
TL363
TL368
W421
W421A

OKIJ

17V10
20V10
22V10
24V10A
24V11
28V12
30V10
30V11
30V12
33V10
34V12
35V10
35V11
35V12
36V12
40V10
40V12
45V10
45V12
47V10
47V11
47V12
50V10
50V11
55V10
55V11
60V10
60V12
70V10
70V11A
80V10A
80V11
90V10A
90V11
100V10A
100V11
105V10
120V10
125V10
BA47F
BA50G
BA55B
BA60C

OKIJ cont.

BA65A
BA70C
BA70X
BA75C
BA85A
BA85X
BA95A
BA100C
BW050
BW080
KA651
KA701A
KA1330
KA1390
KA1450
KA1510

OWE

JAN1B24A
1B24A/MXT14
1B27/MST13
JAN1B35A
1B35A/MXA14
JAN1B37A
1B37A/MXA19
1B38/MST26
1B44/MSA12
1B51/MCA14
1B52/MSA21
1B53/MSA15
1B54/MST27
1B55/MST18
1B56/MSA11
1B58A/MST12
JAN1B63A
1B63A/MXT15
5792/MSA16
5793/MSA17
5853/MST23
JAN5863
JAN5864
5865/MCT32
5866/MST15
JAN5921
5921/MSA18
JAN5922
5922/MSA19
JAN5927
5927/MST21
6022/MCA13
6024/MSA20
JAN6081
6081/MCA11
6117/MST11
JAN6162
JAN6310
6310/MXK14
6312/MXK15
6314/MXK16
JAN6322
6322/MLT11
JAN6378
6378/MXT20
6455/MCA12
JAN6560
6568/MCT17
6591/MCA10
6592/MCC10
6593/MXC11
6594/MCC1
6602/MSC10
6605/MLT23
6624/MCT18
6632/MLT24
6633/MLT17
6634/MLT25
6635/MST18
6636/MST24
6637/MST29
6638/MST30
6639/MCT14
6640/MCT16
6645/MXT61
6646/MXT70
6780/MXK47
JAN6781
6781/MXK11
6795A/MXT12
6905/MCT10
6906/MCT26
6975/MXK21
7152/MLT16B
7166/MLT10
7300/MPT26
7324/MPT11
JAN7381
JAN7417
7447/MCT30
7821/MPT12
7823/MLT13
7849/MCT23
7901/MPT13
7902/MPT17
8099/MST38
8272/MLT41
8313/MPT16
8574/MXT132
8578/MST60
8599/MKT39
8622/MST52

OWE cont.

MCC12
MCC15
MCC16
MCC17
MCC19
MCC20
MCC21
MCT11
MCT12
MCT15
MCT18
MCT19
MCT20
MCT21
MCT24
MCT27
MCT28
MCT29
MCT36
MCT37
MCT38
MCT40
MCT41
MCT43
MCT44
MCT45
MCT46
MKK12
MKK16
MKK22
MKK25
MKK26
MKK26A
MKK29
MKK37
MKT25
MKT27
MKT32
MKT33
MKT34
MKT35
MKT36
MKT37
MKT42
MLT29
MLT33
MLT40
MLT47
MLT49
MPT10
MPT14
MPT15
MPT15A
MPT16A
MPT18
MPT20
MPT21
MPT22
MPT25
MPT27
MPT28
MPT29
MPT31
MPT33
MPT34
MPT35
MPT37
MPT40
MPT41
MPT42
MPT45
MPT47
MSC11
MSC13
MSC15
MST16
MST22
MST45
MST48
MXC19
MXC20
MXC24
MXC25
MXC32
MXC33
MXC35
MXC44#1
MXC44#2
MXK12
MXK22
MXK32
MXK33
MXK48
MXK54
MXK61
MXT27
MXT37
MXT46
MXT51
MXT78
MXT102
MXT109
MXT125
MXT133

RCA

2K26
6521
6521A
8684

RTCF

55335
YK1010

RTN

2J30
2J31
2J32
2J33
2J34
2J42
2J42H
2J50
2J51A
2J53
2J55
2J70A
2J70B
2K22
2K25
2K26
2K28
2K28A
2K29
2K45
2K56
4J31
4J32
4J33
4J34
4J35
4J36
4J37
4J57
4J58
4J59
5J26
6BL6
6BM6
6BM6A
725A
726B
726C
5586
5609A
5657
5721
5795
5836
5837
5976
5981
6002
6043
6115A
6116
6133
6177A
6236
6248
6310
6312
6344A
6390
6402
6406A
6410A
6517
6845
6959
6967A
7040
7156
7158
7208B
7256
7460
7484A
7529
7547
7577
8128
8609
8764
8798
8855
8896
8898
8899
8900
8934
8947
8948
8949
QK221
QK235
QK324
QK327
QK338A
QK358
QK381
QK427
QK437
QK516
QK662A
QK686
QKA773A
QKA1250
QKA1252
QKA1253
QKA1257

RTN cont.

QKA1782
QKH172
QKH366
QKH456
QKH470
QKH539
QKH632
QKH665
QKH666
QKH713
QKH729
QKH730A
QKH731
QKH732
QKH733
QKH898
QKH942
QKH1042
QKH1121
QKH1131
QKH1162
QKH1199
QKH1214
QKH1302
QKH1325
QKH1374
QKH1381
QKH1448
QKH1495
QKH1512
QKH1516
QKH1527
QKH1528
QKH1535
QKH1553
QKH1560
QKH1569
QKH1578
QKH1579
QKH1589
QKH1592
QKH1599
QKH1663
QKH1665
QKH1666
QKH1667
QKH1693
QKH1708
QKH1709
QKH1744
QKH1757
QKH1763
QKH1777
QKH1793
QKK404
QKK412
QKK531
QKK532
QKK549
QKK623
QKK752
QKK753
QKK754A
QKK755A
QKK756A
QKK758A
QKK759A
QKK822
QKK826
QKK833A
QKK860
QKK869
QKK873
QKK877
QKK878
QKK879
QKK910
QKK965
QKK967
QKK968
QKK978
QKK1022
QKK1060
QKK1106
QKK1235
QKK1237
QKK1288
QKK1289
QKK1313
QKK1315
QKK1316
QKK1333
QKK1376
QKK1399
QKK1447
QKK1459
QKK1466
QKK1468
QKK1486
QKK1491
QKK1515
QKK1554
QKK1563
QKK1565
QKK1571
QKK1583
QKK1649
QKK1719
QKK1720
QKL1066
QKL1219
QKL1390

4. MANUFACTURERS AND THEIR TYPE NUMBERS

IN ORDER OF MANUFACTURER AND TYPE NUMBER

RTN cont.

QKL1550
QKS506
QKS630
QKS642
QKS653
QKS783
QKS807
QKS846
QKS973
QKS1130
QKS1181
QKS1194
QKS1243
QKS1244
QKS1262
QKS1286
QKS1319
QKS1343#1
QKS1343#2
QKS1350
QKS1380
QKS1439
QKS1452
QKS1484
QKS1539
QKS1540
QKS1541
QKS1543
QKS1544
QKS1549
QKS1552
QKS1558
QKS1559
QKS1584
QKS1591
QKS1606
QKS1611
QKS1646
QKS1648
QKS1672
QKS1697
QKS1705
QKS1729
QKW750B
QKW750C
QKW1013
QKW1132
QKW1309
QKW1331
QKW1389
QKW1514
QKW1518
QKW1518SG
QKW1542
QKW1630
QKW1638
QKW1652
QKW1668
QKW1671
QKW1701
QKW1704
QKW1722
QKW1723
QKW1724
QKW1734
QKW1740
QKW1741
QKW1742
QKW1750
QKW1751
QKW1753
QKW1767
QKW1768
QKW1769
QKW1789
QKW1802
QKW1803
USAF377A

SGN

6144
6356
6357
6358
6359
6684
6782
6881
6882
7101
7147
7148
7988
7989
7990
7991
7992
7993
7999
8030
8031
8059
8151
8152
8286
8287
8288
8292
8293
TN162

SGN cont.

TN163
TN164
TN165
TN166
TN167
TN170
TN171
TN172
TN173

SIEG

RW2
RW21
RW42
RW80
RW81
RW1120C
RW1121
RW040
RW050
RW060
RW075
RW080
RW0110B
YH1010
YH1011
YH1012
YH1014
YH1020
YH1041
YH1043
YH1044
YH1045

SPY

2K39
2K41
JAN2K41
2K42
2K43
2K44
JAN7511
JAN8315
JAN8316
JAN8362
JAN8364
JAN8405
JAN8406
JAN8493
SAC41
SAC42
SAC45A
SAC46
SAC47
SAC167
SAC225
SAL219
SAL415
SAL0893
SAL2191
SAL4151
SAS60A
SAS60B
SAS61
SAS5310
SAX4701
SAX4705
SBE4023
SBF4221
SBM4212
SBU4530
SBU4531
SBU4532
SBV4370
SBX2980
SOX2397
SRC64D1
SRK4642
SRL7C
SRL7CH
SRL7F
SRL7G
SRL7H
SRL17
SRU55A/B
SRU210
SRU216
SRU223
SRU419
SRU2161
SRU4191
SRU4192
SRU4195
SRU4430
SRU4431
SRV4400
SRV5250
SRV5390
SRX424
SRX0921
SRX0923
SRX0926
SRX4591
SRX4592
SRX4594
SRX4597
SRX4770
SRX4771

SPY cont.

SRX4772
SRX4950
SRX4952
SRX4954
SRX4955
SRX4956
SRX4957
STC124
STC152
STC278
STC279
STC5210
STC5213
STC5214
STC5215
STC5216
STC52131
STC52132
STC52151
STC52152
STC52161
STC52162
STC52163
STC52165
STC54402
STL161
STL199
STL257
STL260
STL405
STL2221
STS276
STS284
STS288
STU52271
STU52273
STU54300
STU54302
STU54312
STU54313
STU54314
STU61000
STX5220
STX5221
STX5222
STX5223
STX5224
STX5225
STX5225-1
STX5226-1
STX52201
STX52202
STX52203
STX52211
STX52221
STX52251
STX52252
STX52260
STX52270
STX52272
STX52280
STX54400
STX54401

STCB

4KM100LA
4KM100LF
4KM100LH
V190C/1M
V238A/1K
V239C/1K
V241C/1K
V243A-3FS
V243A/2F
V246A/1K
V246A/2K
V247C/1K
V271C/3M
V275C/3M
VA946A
VA947A
VA948A
VA950A
VA951A
VA952A
W2MT1A
W3-5G
W3/2G
W3MC-3B
W3MC-3C
W3MC-5A
W3MC-6A
W3MC/3A
W3MQ/1D
W3MQ/1F
W3MT-4A
W4/2G
W5-2GF
W5-4G
W5/1G
W5/2G
W5/2GD
W6ML/1C
W6MT-2A
W7-6GC
W7-6GL
W7-6GZ
W7/2D
W7/3G
W7/4G

STCB cont.

W7/5GA
W7/5GB
W7/5GC
W7/6GA
W9/2E
W9/3E
W10/3E
W10/4G
W10ML/6A
W10MQ/5A
W10PQ/5A
W45B/5E
W46D-2T
W48D3T
W48D-1T
Z150/35Z
Z151/50Z
Z152-50Z
Z153-50Z
Z154-70Q
Z154-150Q
Z155/150Z
Z159-210Z
Z160/35Z
Z161/50Z
Z162-50Z
Z163-50Z
Z166/150Z
Z169-210Z
Z170/35Z
Z171/50Z
Z172-50Z
Z173-50Z
Z179-210Z
Z188/150Z
Z211/1G
Z237-1KW
Z239/1G

THC

1B24A
1B27
1B35A
1B37A
1B38
1B58A
1B63A
2J51
2J55
2K25A
2K28
4J50TO
4J50TR
5J26
6BL6
6BM6
5586
5657
5837
5853
5927
6116
6314
6322
6334
6564
6596
6615
6640
6781
6975
7008
7381
AP413
AP414
AP433
AP623
AR434C
AR434E
CMA1231
CMA1232
CMA1233
CMA1234
CMA1241
CMA1242
CMA1243
CMA1244
CMA1245
CMA1246
CMA1247
CMA1251
CMA1252
CMA1253
CMA1254
CMA1255
CMA1256
CMA1257
CMA1258
CMA1259
CMA1260
CMA1261
CMA1290
CMP1115
CO09
CO10
CO20A
CO20B
CO40A
CO40B
CO80

THC cont.

F1005
F1025
F1030
F1031
F1032
F1033
F1034
F1035
F1036
F1037
F1038
F1039
F1040
F1041
F1042
F1043
F1044
F1050
F1054
F1055
F1056
F1088
F1089
F1090
F1091
F1092
F1093
F1094
F1095
F1096
F1103
F1103A
F1119
F1120
F1121
F1123
F1127
F1128
F2006
F2008
F2009#
F2015
F2040
F2042
F2043
F2049
F2055⍁
F3003
F3004
F3010
F3012
F3022
F3023
F3024
F3025
F3026
F3027
F3031
F3042
F3043
F4017D
F4019
F4020
F4021
F4022
F4024B
F4025B
F4026B
F4027
F4032B
F4035
F4036
F4038
F4039
F4040
F4041
F4043
F4044
F4045
F4051
F4052
F4056B
F4064A
F4066
F4069
F4074
F4075
F4076
F4084
F4085
F4114
F4116
F4117
F4118
F4119
F4123A
F4129
F4143
F4146
F4150
F4156
F4171A
F4181
F4182
F4185
F4186
F4189
KAP1151
KAP1152
KR740
KR741
KR742

THC cont.

KR743
KRA1080
KRA1081
MC567
MC1055A
MC1055B
MC1055C
MC1055D
MC1055E
MC1055F
MC1055G
MC1055H
MC1055I
MC1055J
MC1055K
MC1055L
MC1055M
MC1055N
MC1055O
MCF1165
MCF1166
MCF1327
MCF1329
MCF1330
MCF1331
MCF1492
MCF1493
MCF1510
MCV1055E
MCV1055F
MCV1055G
MCV1125
MCV1170
MCV1300
MCV1352
MCV1353
MCV1420
MCV1421
MCV1471
MCV1479
TH1725B
TH2046
TH2047
TH2047P
TH2048
TH2050
TH2051
TH2052
TH2054
TH2056
TH2061
TH2062
TH2063
TH2064
TH2067
TH2068
TH2069
TH2210C
TH2232
TH2404
TH2406
TH2407
TH2408
TH2409
TH2410
TH2602
TH2605
TH2606
TH2607
TH2608
TH3039
TH3041A
TH3041B
TH3042
TH3043
TH3049
TH3057
TH3060B
TH3061
TH3064
TH3066
TH3069
TH3070
TH3501
TH3503
TH3505
TH3507
TH3508
TH3509
TH3511
TH3513
TH3515
TH3516
TH3518
TH3519
TH3522
TH3524
TH3525
TH3528
TH3529
TH3531
TH3532
TH3533
TH3536
TH3540
TH3541
TH4011
TH4012
TH9116
TH9121A
TH9128
TH9131

THC cont.

TH9140
TH20101
TH20102
TH20107
TOP251A
TOP851
TOP1203
TOP1222
TOP1226
TOP1289
TOP1293
TOP1294
TOP1304
TOP1334
TOP1369
TOP1401
TOP1407
TOP1432
TOP1487
TV55
TV55E
TV55F
TV58
TV210B
TV217C
TV217CH
TV220A
TV220B
TV220C
TV220D
TV220E
TV220F
TV220G
TV220J
TV221A
TV221B
TV221C
TV221D
TV221E
TV221F
TV221G
TV221H
TV221K
TV222A
TV222B
TV222C
TV222D
TV222E
TV222F
TV222G
TV232
TV242
TV244
TV244A
TV244B
TV244C
TV244E
TV244F
TV244H
TV244K
TV246
TV259
TV259A
TV259B
TV259C
TV259E
TV262
TV313
TV514
TV514B
TV517
TV848
TV851
TV1255B
TV1505
TV1546
TV1547
TV2001
TV2001W
TV2002
TV2011
TV2012
TV2013
TV2014
TV2015
TV2017
TV2018
TV2019
TV2019W
TV2022
TV2024
TV2028
TV2030
TV2032
TV2042
TV2053
TV2091
TV2092
TV2125CBA
TV2125CBB
TV2126
TV2211A
TV2211B
TV2211C
TV2211D
TV2212A
TV2212B
TV2215A
TV2216A
TV2216B
TV2216C
TV2217H

THC cont.

TV2218
TV2226
TV2246A
TV2246B
TV2246X
TV2350
TV2412M
TV3212
TV3214
TV3215
TV3301
TV3304
TV3308
TV3309
TV3340
TV3340A
TV3340B
TV3362
TV3372
TV19111
TV19112C
TV19114
X13
X13B

TOSJ

1AV48
1AV56
1AV81
1AV83
1AV88
1AV95
1B24A
1B35A
1B63A
1M70A
1W50
1W80
2AV30
2J42
2J42H
2J55
2K25
2K26
2M21
2M53
2M57
2M57A
2M60A
2M63
2M68
2M69
2M151
2M151A
2M152
2M164
3M95
5X10
6M70
6M72
6W401
6W411
6W411V
7V40
7V312
7W402
7W412
7W412V
8W23
8W403
8W413
8W413V
9M31
9M40
9M61
9M62
9M62A
9M64A
9M65
9M66
9M72
9M73
9M90
9V10
9X64
11V54
11V54A
12V25
12V26
725A
6410A
6521
6861
7208
7529
E3753
E3762
E3803
E3902
M4505E
M4508B
M4537
M4543
M4628
M4634
M4826F
M4837P
M4837PC
M7880
M7880B

4. MANUFACTURERS AND THEIR TYPE NUMBERS

IN ORDER OF MANUFACTURER
AND TYPE NUMBER

TOSJ cont.

M7895

VAR

1K75CH
1K75CK8199
1K75CK
1K75CLA
1K75CS
1K125CA
1K125CB
1K125CB-B
1K125CD
3K210000LQ
3KM3LB
3KM300LA
3KM3000LA
3KM50000PA
4K3CB
4K3SJ
4K3SK
4K3SL
4K3SN
4K5SL1
4K200LW
4K200LX
4KM50LB
4KM50LC
4KM50SI
4KM50SJ
4KM50SK
4KM70LA
4KM70LF
4KM70LH2
4KM70LH
4KM70SJ
4KM70SK
4KM100LA
4KM100LF
4KM100LH
4KM150LA
4KM150LB
4KM150LF
4KM150LH1
4KM150LH
4KM3000LR
4KM50000LA3
4KM50000LA5
4KM50000LQ
4KM50000LR
4KMP300LU
4KMV150LH1
4KP3SN
5K50SE
5K50SG
5K70SG
5K70SH1
5K300SK
5KM50SJ
5KM70SI
5KM70SJ
5KM300SI
5KM1000SG
JAN417C
6310
6312
6314
6315
6316
6390
JAN6460
6805
6975
JAN6995
7049
7393
7394
JAN7471
7505
7640
7662
7663
7829A
JAN7829A
8052
8111
8154
8198
8199
8232
8332
JAN8405
8467
JAN8467
8568
JAN8742
8821
JAN8821
8848
8849
8956
EM15LS
EM113
EM114A
EM117
EM118C
EM120
EM778
EM778J
EM1006
EM1010

VAR cont.

EM1015
EM1015S
EM1026
EM1030
EM1039A
EM1045
EM1047
EM1050
EM1056
EM1059
EM1060
EM1095
EM1102B
EM1114,B
EM1114A,C
EM1138
EM1138M
EM1148A
EM1149
EM1184E
EM1188
V23
V24E
V39B/C
V40B/C
V53B/C
V55B
V58C
V154
V157
V262
V270
V290/6314
VA87B
VA87C
VA87E
VA92
VA92B
VA92H
VA94
VA94B
VA97
VA97B
VA98
VA113
VA114
VA115
VA118A
VA145B
VA145D
VA145E
VA145F
VA145H
VA145J
VA145UH
VA145UL
VA146
VA146C
VA146M
VA160E
VA160M
VA160N
VA161F
VA161M
VA162F
VA162M
VA163M
VA164M
VA173M
VA173T
VA173TA
VA175M
VA175T
VA177M
VA178M
VA183G
VA183GA
VA184F
VA184M
VA184T
VA185F
VA185M
VA187M
VA201B
VA203L
VA210B
VA210M
VA215H
VA217C
VA218B
VA220A
VA220B
JANVA220B
VA220C
VA220D
VA220E
VA220F
VA220G
VA220J
VA220Z
VA221B
VA221C
VA221D
VA221E
VA221F
VA221G
VA221H
VA222A
VA222B8821
VA222C
VA222D
VA222E

VAR cont.

VA222F
VA222G
VA222Z
VA225
VA232
VA237A
VA237B
VA237C
VA237D
VA237E
VA237F
VA240
VA240C
VA241
VA242
VA244
VA244K
VA246
VA249
VA253
VA259
VA259A
VA259AT
VA259B
VA259BT
VA259C
VA259CT
VA259DT
VA259E
VA259ET
VA259F
VA259FT
VA259J
VA259N
VA259P
VA259R
VA259T
VA264
VA265
VA266A
VA272
VA273B
VA273D
VA273G
VA273H
VA275A
VA275B/C
VA275D
VA282
VA282AD
VA282D
VA282E
VA283
VA286
VA287
VA287A
VA287B
VA287C
VA287D
VA288A
VA297
VA297T
VA297U
VA297V
VA297W
VA297X
VA297Y
VA297Z
VA302
VA303
VA308
VA309
VA310
VA311
VA312
VA313
VA318
VA322
VA326
VA327
VA329
VA435M
VA436M
VA440M
VA440N
VA441F
VA441M
VA450C
VA450M
VA450N
VA451M
VA451N
VA460M
VA460N
VA461M
VA461N
VA462N
VA470M
VA470N
VA472M
VA480M
VA482M
VA490M
VA490N
VA503B
VA503C
VA504B
VA508
VA510B
VA510D
VA513
VA514

VAR cont.

VA515B
VA516
VA517
VA518
VA519
VA520
VA521
VA523
VA531
VA531A
VA532
VA533
VA534
VA535
VA536
VA537
VA620A
VA625L
VA645G
VA651
VA664A
VA800E
VA808
VA811
VA811B
VA811C
VA812D
VA812E
VA816J
VA820
VA820C
VA820D
VA820E
VA820F
VA838
VA838B
VA839
VA842
VA845
VA853
VA853M
VA861
VA862A
VA864M
VA866
VA869A
VA870
VA874B
VA874E
VA876
VA879
VA879G
VA883
VA884B
VA884C
VA884D
VA888
VA890A
VA891A
VA892A
VA896
VA903
VA908
VA909
VA911
VA913A
VA914
VA914B
VA915A
VA917B
VA920A
VA920B
VA921
VA922
VA925
VA925B
VA925C
VA926
VA927
VA928A
VA930
VA932
VA932B
VA934
VA935
VA936A
VA936B
VA936E
VA936G
VA936J
VA936K
VA936N
VA938A
VA938C
VA943A
VA944A
VA945A
VA946A/B
VA946H
VA947A/B
VA947C
VA947H
VA948A/B
VA948C
VA948H
VA949BM
VA950A/B
VA951A
VA952A
VA953A/B/G
VA954A/B/G
VA955A/B/G

VAR cont.

VA956
VA958A
VA961
VA963A
VA988
VA988A
VA988B
VA988C
VBC7506M
VBX7504M
VBX7505M
VKA7010
VKC7777
VKC8342/8956
VKK7009
VKL7755
VKL7759
VKL7760
VKL7774
VKL7783
VKL7796
VKL7800
VKP7758
VKS7761
VKS7770
VKS7793
VKS7795
VKU7008
VKU7763
VKU7791
VKX7006
VKX7750
VKX7751
VKX7752
VKX7753
VKX7765A
VKX7769
VKX7780B
VKX7780C
VKX7780D
VKX7780H/M
VKX7780J
VKX7780S
VKX7780V
VKX7799
VRJ7203A
VRK7212
VRU7208
VRX7204A
VRX7204B
VRX7207
VTC4360P1
VTC4360P2
VTC4361H1
VTC4402P1
VTC4402P2
VTC4414A4
VTC4414P1
VTC4414P2
VTC4414P3
VTC4414S2
VTC4414S6
VTC4451H1
VTC4460P1
VTC4460P7
VTC4461P1
VTC4461P6
VTC5160A1
VTC5161A1
VTC5170A1
VTC5260H1
VTC5261H1
VTC5261J1
VTC5262A1
VTC5262B1
VTC5264A2
VTC5360A1
VTC5360A2
VTC5360H1
VTC5361A1
VTC5660A1
VTC5760A1
VTC6060A1
VTC6060H1
VTC6061B1
VTC6069F1
VTC6160A1
VTC6160B1
VTC6160H1
VTC6160J1
VTC6260A1
VTC6260C1
VTC6260H1
VTC6260H2
VTC6260J1
VTC6264C6
VTC6360A1
VTC6360E1
VTC6361A1
VTC6362A1
VTC6363A1
VTC6364A1
VTC6660A1
VTC6660C1
VTG4230P1
VTG4320P1
VTG4320P2
VTG4321H1
VTG4420P1
VTG4421H1
VTG5120A1
VTG6020A1

VAR cont.

VTG6025A1
VTG6025A2
VTG6028A1
VTG6230A1
VTG6260A1
VTH4370H3
VTH4371H1
VTH4471H1
VTH4471P1
VTH6070A1
VTH6070A2
VTH6071A1
VTH6074A2
VTH6074B1
VTH6074H2
VTH6074J1
VTH6077A1
VTH6079A1
VTH6170A1
VTH6170B1
VTH6170H1
VTH6170J1
VTH6270C1
VTH6272A1
VTJ6264C4
VTL5240H1
VTL5241A1
VTL5341H1
VTL5341K1
VTL5740A1
VTL5741A1
VTL6040H1
VTL6140A1
VTL6140B1
VTL6140B2
VTL6240A1
VTL6240C1
VTL6242C1
VTL6640A1
VTM4386A1
VTM4386H1
VTM4486H1
VTP5231B1
VTP6330A1
VTP6331A1
VTP6331A2
VTP6332A1
VTP6333A1
VTP6334A1
VTS4350P1
VTS4350P3
VTS4351H1
VTS4407P1
VTS4407P2
VTS4407P3
VTS4407P4
VTS4407P6
VTS4413H1
VTS4413H2
VTS4413H9
VTS4413P1
VTS4413P2
VTS4413P3
VTS4413P5
VTS4413P9
VTS4450P2
VTS4450P7
VTS4451H1
VTS4451P1
VTS4451P2
VTS5150A1
VTS5152A1
VTS5250A1
VTS5251A1
VTS5252A1
VTS5252C2
VTS5253A2
VTS5350A1
VTS5351A1
VTS5352B1
VTS5352H1
VTS5353A1
VTS5650A1
VTS5651A1
VTS5751A1
VTS6050A2
VTS6050H5
VTS6055A1
VTS6150A1
VTS6150B1
VTS6150H1
VTS6150J1
VTS6250A1
VTS6250A3
VTS6250C1
VTS6250H1
VTS6250H2
VTS6250J1
VTS6252C1
VTU4390H1
VTU4390P1
VTU4390P2
VTU4390P3
VTU4490H1
VTU4490H5
VTU4490P1
VTU5390A1
VTU5391A1
VTU6090A1
VTU6090H1
VTU6091A1
VTU6091H1

VAR cont.

VTU6190A1
VTU6190H1
VTU6290C1
VTU6290C2
VTU6390A1
VTU6391A1
VTU6690A1
VTX4380P1
VTX4380P2
VTX4380P5
VTX4380P6
VTX4381H1
VTX4403C4
VTX4403J1
VTX4403P9
VTX4403S9
VTX4412P1
VTX4415H1
VTX4415P1
VTX4415P2
VTX4415P3
VTX4415P4
VTX4480P1
VTX4481H1
VTX4481P5
VTX4481P6
VTX5180A1
VTX5380B1
VTX5383A1
VTX5680A1
VTX5780D1
VTX5782A1
VTX6081A1
VTX6081B1
VTX6084A1
VTX6084H1
VTX6089H2
VTX6089H3
VTX6180A1
VTX6180B1
VTX6180H1
VTX6180J1
VTX6181A
VTX6181H1
VTX6280C1
VTX6280J1
VTX6380A1
VTX6383A1
VTX6384
VTX6384A1
VTX6625
VZC6060C1
VZC6060D1
VZC6061C1
VZC6061D1
VZC6960E2
VZC6961E1
VZC6962E1
VZC6963C1
VZG6020C1
VZG6020D1
VZG6025C1
VZG6025D1
VZH6070C1
VZH6070D1
VZH6074C1
VZH6074D1
VZH6971E1
VZL6040C1
VZL6040D1
VZL6941E1
VZL6942E1
VZS6050C1
VZS6050C2
VZS6050D1
VZS6050D2
VZS6950E2
VZS6951E1
VZS6952E1
VZU6090C1
VZU6090D1
VZU6990E1
VZU6992C1
VZU6992E1
VZX6084C1
VZX6084D1
VZX6980E1
VZX6980E3
VZX6981E1
VZX6981S3
VZX6981S4
VZX6982E1
X12
X13
X13B
X13C
X26
X602K
X780
X841D
X3002
X3002A
X3030
X3033
X3066
X3068
X3070
X3075
X3076

VARC

6310
6312
6915
6975
8895
EM1114,B
EM1114A,C
V55D
V55E
V55F
V262
VA98J
VA98M
VA203B/6975
VA203C,G,H,J
VA203K
VA203L
VA218
VA218B
VA242
VA246
VA270VP6915
VA804
VA846
VC102
VC103A
VC103B
VC103C
VC103D
VC103E
VC722A
VKB2415A
VKB2415B
VKB2415C
VKB2415E
VKB2415F
VKB2415G
VKB2415H
VKC2403A1
VKC2403A2
VKC2403A3
VKC2403A4
VKC2403A5
VKC2403A6
VKC2403A7
VKC2403A8
VKC2403A9
VKC2403A10
VKC2404A1
VKC2404A2
VKC2404A3
VKC2404A4
VKC2404A5
VKC2404A6
VKC2404A7
VKC2404A8
VKC2404A9
VKC2404A10
VKC2404A11
VKE2401A1
VKE2401A2
VKE2401A3
VKE2401A
VKE2401B
VKE2401C
VKE2401D
VKE2401E
VKE2401F
VKE2401G
VKE2401H
VKH2405A1
VKQ2420A
VKQ2420B
VKQ2420C
VKQ2420D
VKQ2420E
VKQ2420F
VKQ2420G
VKQ2420H
VKT2411E
VKT2411F
VKT2411G
VKT2411H
VKX2402A1
VRB2111A
VRB2112A1
VRB2112A2
VRB2112A3
VRB2112A4
VRB2112A5
VRB2112A6
VRB2112A7
VRB2112A8
VRB2112A9
VRB2112A10
VRB2112A11
VRB2112A12
VRB2112A13
VRB2112A14
VRB2112A15
VRB2113A1
VRB2113A2
VRB2113A3
VRB2113A4
VRB2113A5
VRB2113B1
VRB2113B2
VRB2113B3
VRB2113B4
VRB2113B5
VRB2115A1
VRB2115A2

VARC cont.
VRB2115A3
VRB2115A4
VRB2115A5
VRE2101A
VRE2102A1
VRE2102A2
VRE2102A3
VRE2102A4
VRE2102A5
VRE2102A6
VRE2102A7
VRE2102A8
VRE2102A9
VRE2102A10
VRE2102A11
VRE2102A12
VRE2102A13
VRE2102A14
VRE2102A15
VRE2102A16
VRE2103A1
VRE2103A2
VRE2103A3
VRE2103A4
VRE2103A5
VRE2103A6
VRE2103B1
VRE2103B2
VRE2103B3
VRE2103B4
VRE2103B5
VRE2103B6
VRE2105A1
VRE2105A2
VRE2105A3
VRE2105A4
VRE2105A5
VRE2105A6
VRE2105A7
VRQ2100A1
VRT2121A1
VRT2121A2
VRT2121A3
VRT2121A4
VRT2121A5
VRT2121A6
VRT2121A7
VRT2121A8
VRT2121A9
VRT2121A10
VRT2121A11
VRT2121A12
VRT2121A13
VRT2121A14
VRT2121A15
VRT2121A16
VRT2122A1
VRT2122A2
VRT2122A3
VRT2122A4
VRT2122A5
VRT2122A6
VRT2122A7
VRT2122A8
VRT2122A9
VRT2122A10
VRT2122A11
VRT2122A12
VRT2122A13
VRT2122A14
VRT2122A15
VRT2122B1
VRT2122B2
VRT2122B3
VRT2122B4
VRT2122B5
VRT2122B6
VRT2122B7
VRT2122B8
VRT2122B9
VRT2122B10
VRT2122B11
VRT2122B12
VRT2122B13
VRT2122B14
VRT2122B15
VRT2123A1
VRT2123A2
VRT2123A3
VRT2123A4
VRT2123B1
VRT2123B2
VRT2123B3
VRT2123B4
VRT2124A1
VRT2124A2
VRT2124A3
VRT2124A4
VRT2124B1
VRT2124B2
VRT2124B3
VRT2124B4
VRT2125A1
VRT2125A2
VRT2125A3
VRT2125A4
VRT2411A
VRT2411B
VRT2411C
VRX2200A1
VRY2131A
VTG2605A1

VARC cont.
VTG2605C4
VTG2625A1
VTG2627A1
VTG2630A1
VTG2630A5
VTH2601A1
VTH2610A1
VTH2610A2
VTJ2607A1
VTJ2608A1
VTJ2608A2
VTJ2609A1
VTJ2609A2
VTJ2609A3
VTJ2609A4
VTJ2609A11
VTJ2618A1
VTJ2623A1
VTJ2624A1
VTJ2626A1
VTJ2628A1
VTJ2632A1
VTM2613A1
VTM2615A1
VTM2616A1
VTP2619A1
VTP2620A1
VTP2621A1
VTS2600A1
VTS2600A2
VTS2602A1
VTS2602B2
VTS2603A1
VTS2603B2
VTS2604A1
VTU2614A1
VTX2612A1
VTX2612B1
VTX2622A1
VYG2630A1
VYH2610A2
VYJ2609A1
VYJ2609A4
VYJ2609A11
VYS2602A1
VYS2603A1
VYS2604A1
X13
X13B

VET

1B23
JAN1B23
1B24A
JAN1B24A
1B27
JAN1B27
1B35A
JAN1B35A
1B37A
JAN1B37A
1B44
1B54
JAN1B54
1B56
1B58A
JAN1B58A
1B63A
JAN1B63A
1B63B
203B
203J
JAN721B
5792
5793
5853
JAN5863
JAN5864
5864/ATR321
5865
JAN5865
5883
5921
JAN5921
5922
JAN5922
5927
JAN5927
5939A
6022
6024
JAN6024
6033
6034
6081
JAN6081
6117
JAN6162
6162/ATR388
6163
6214
6260
6276
6282
6304
6304/BL43
6310
JAN6310
6312
JAN6312

VET cont.
6316
6322
JAN6322
6322/BL25
6334
6334/BL27
6369
6378
JAN6378
6378/BL62
6393
6455
6551
6560
JAN6560
6560/BL35
6564
6564/BL71
6565
6568
6591
6592
6593
6594
6594/BL311
6595
6596
6596/BL317
6597
6599
6601
6602
6604
6605
6605/BL96A
6613/BL324
6615/BL312
6616
6624
6629
6630
6631
6632
6633
6635
6636
6636/BL87
6637
6639
6639/BL46
6640
6640/BL60
6641
6641/BL86
6642
6644
6644/BL95
6645
6645/BL95H
6646
6646/BL604
6647
6648
6649
6650
6685
6780
6781
JAN6781
6795
6890
6890/BL650
6904
6905
6905/BL613
6906
6906/BL643
6962/BL665
6975
JAN6975
7088
7152/BL612
7166/BL933
7309/BL693
JAN7381
7381/BL979
7417
7443
7446
7447/BL325A
7452A
7503
7821
7849/BTR140
7902/BLT004A
8060/BLT041
8061/BLT059
8312/BL960B
8313/BL995B
8470/BL994
8472/BLT055
8481/BLT032
8599/BTR138
8682
JAN8682
8763
8770/BTR546
JAN8827
JAN8855
8896
JAN8939
BES042

VET cont.
BES043
BES044
BES046
BES048
BES050
BES051
BES063
BL221
BL234C
BL235
BL236
BL237
BL244
BL245
BL246
BL246A
BL250
BL325
BL336
BL350
BL362
BL364
BL366
BL367A
BL397A
BL398
BL591
BL638
BL640
BL644
BL696
BL800A
BL803
BL807
BL814
BL825
BL829
BL843
BL844
BL847
BL849
BL934A
BL954
BL962
BL965
BL967A
BL970
BL973
BL982
BLA007-1
BLA009
BLA011
BLA012
BLA013
BLA019
BLK001
BLK002
BLK003
BLK004
BLK005
BLK006
BLK007
BLK008
BLK010
BLK011
BLK012
BLK020
BLK022
BLK024
BLK829
BLM003
BLM006
BLM014
BLM017
BLM071
BLM076A
BLM086
BLM093
BLM095
BLM116
BLM127
BLM129
BLM136
BLM138
BLM143A
BLM148
BLM149A
BLM153
BLM154
BLM155
BLM162
BLM167
BLM176
BLM179
BLM181
BLM183
BLM184
BLM186
BLM188
BLM190
BLM192
BLM195
BLM196
BLM198
BLM199
BLM201
BLM203
BLM204
BLM205
BLM207
BLM211
BLM213

VET cont.
BLM256
BLM304
BLM306
BLM309
BLM310
BLM311
BLM312
BLM313
BLM1390
BLM1395
BLP005D
BLP017D
BLP027D
BLP136D
BLP149D
BLP215
BLS032
BLS517
BLS526
BLS530
BLS531
BLT005B
BLT028
BLT033
BLT036
BLT056
BLT058
BLT072
BLT074
BLT077
BLT088
BLT101
BLT111
BLT114A
BLT119
BTR123
BTR129
BTR136
BTR141
BTR145
BTR147
BTR153
BTR156
BTR162
BTR167
BTR171
BTR174
BTR198A
BTR202
BTR209
BTR537
BTR540
BTR541
BTR545A
BTR547
BTR554
BTR570A
BTR574
BTR576
BTR583
BTR608
BTR614
BTR629A
BTR630
BTR632A
BTR633
BTR639
BTR640
BTR641
BTR647
BTR666
JANDOD004
JANDOD005
EM747
EM1081
EM1083B
EM1088B
EM1089
EM1091
EM1091A
EM1092
EM1093
EM1097
EM1150
EM1151
EM1153C
EM1165
EM1300
EM1310
EM1311
EM1313
EM1320
EM1321
EM1323
EM1331
EM1332
EM1333
EM1334
EM1336
SFD217
SFD218
SFD218A
SFD222
SFD222A
SFD223
SFD225
SFD227
SFD231
SFD232
SFD233
SFD236
SFD237

VET cont.
SFD238
SFD240
SFD241
SFD242
SFD243
SFD244
SFD244A
SFD246
SFD249
SFD250
SFD252
SFD254
SFD257
SFD303
SFD303B
SFD304
SFD305
SFD313A
SFD313B
SFD319
SFD325
SFD325A
SFD327W
SFD332
SFD333
SFD333T
SFD333TM
SFD341
SFD342
SFD344
SFD345
SFD347
SFD349
SFD349F
SFD349FL
SFD349H0-1
SFD349N
SFD352
SFD354A
SFD354G
SFD354H
SFD356
SFD363
SFD367
SFD370
SFD372
SFD373
SFD373E
SFD375
SFD377A
SFD380
SFD380A
SFD380F
SFD381
SFD382
SFD383
SFD386
SFD511
SFD605
SFD612
USAF304
USAF377A
V270/6312
V290/6314
VDC1006
VDC1008
VDC1020
VDC1025
VDC1026
VDC1029
VDC1032
VDK1000
VDS1003
VDS1006
VDS1007
VDS1011
VDS1013
VDS1014
VDS1015
VDS1018
VDS1019
VDS1020
VDS1021
VDS1022
VDU1001
VDU1002
VDU1014
VDU1015
VDU1046
VDX1001A
VDX1006
VDX1025
VDX1036
VDX1047
VDX1051
VDX1052
VDX1071
VDX1085
VDX1086
VFS9500
VFS9503
VFS9505
VFS9506
VFS9507
VFU9500
VFU9502
VFX9500
VFX9503
VFX9506
VFX9507
VLL1000
VLU1000

VET cont.
VLU1002
VLX1001
VLX1004
VLX1006
VLX1009
VMA1043
VMC1005
VMS1056
VMU1000
VMU1018
VMU1021
VMU1032
VMU1102
VMX1003
VMX1004
VMX1024
VMX1025
VMX1026
VMX1027
VMX1028
VMX1031
VMX1058
VMX1077
VMX1090
VXC1060
VXS1059
VXX1062
VXX1063
VXX1064
X13

WAR

RW617#1
RW617#2
RW617#3
RW618#1
RW618#2
RW618#3
RW619#1
RW619#2
RW619#3
RW620#1
RW620#2
RW620#3

WJC

JAN8076A
SE209A50
SE211A50
SE211B50
SE214-50
SE214A50
SE215-50
SE215A50
SE218-50
SE219-50
SE220-50
SE221-50
SE222
SE222-50
WJ228
WJ268
WJ269
WJ269-58
WJ271
WJ271-2
WJ276
WJ276-2
WJ278
WJ280
WJ281
WJ286
WJ287
WJ294
WJ294-5
WJ295
WJ295-5
WJ296
WJ296-5
WJ297
WJ297-2
WJ307
WJ307-24
WJ328-1
WJ329-1
WJ331-1
WJ332-1
WJ338
WJ340
WJ342
WJ343
WJ345
WJ345-11
WJ346
WJ355
WJ357
WJ363
WJ371
WJ375-4
WJ376
WJ377
WJ381
WJ393
WJ396
WJ405
WJ406
WJ407
WJ408

WJC cont.
WJ422
WJ423
WJ424
WJ424-6
WJ425
WJ437
WJ440-1
WJ440-8
WJ440-20
WJ457
WJ458
WJ459
WJ460
WJ461
WJ462
WJ463
WJ464
WJ465-1
WJ466
WJ468-2
WJ472
WJ476
WJ477
WJ481
WJ482
WJ484
WJ485
WJ486
WJ494
WJ2001-50
WJ2001-51
WJ2003-50
WJ2018-50
WJ2018-51
WJ2019-50
WJ2019-51
WJ2020-50
WJ2020-51
WJ2038-50
WJ2039-50
WJ2039-51
WJ2049-50
WJ2056-50
WJ2057-50
WJ2058-50
WJ2060-50
WJ2061-50
WJ2062-50
WJ3003
WJ3004
WJ3005
WJ3006
WJ3033
WJ3500
WJ3501
WJ3502
WJ3503
WJ3504
WJ3505
WJ3506
WJ3507
WJ3613-1
WJ3613-2
WJ3614-1
WJ3614-2
WJ3632
WJ3632-1
WJ3632-2
WJ3633-1
WJ3633-2
WJ3633#1
WJ3633#2
WJ3634-1
WJ3634-2
WJ3634#1
WJ3634#2
WJ3635
WJ3800
WJ3801
WJ3802
WJ3803
WJ3804
WJ3805
WJ3806
WJ3807
WJ3850
WJ3851
WJ3852
WJ3853
WJ3860
WJ3861
WJ3862
WJ3863

5. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-E-1 /
1B23	VET	21B
1B24A	OWE VET	609E
1B27	VET	208F
1B35A	OWE VET	22H
1B37A	OWE VET	22H
1B54	VET	25D
1B58A	MIC VET	970C
1B63A	MIC OWE VET	26C
2J30	none	1676
2J31	none	1676
2J32	none	1676
2J33	none	1676
2J34	none	1676
2J42	EEVB LIT	667F AMEND 1
2J42H	LIT	1002E
2J49	none	945C
2J50	none	945C
2J51A.	none	846H AMEND 1
2J55	EEVB	297C
2K22	none	1638A ΔØ
2K25	none	982A
2K28	none	496C AMEND 1
2K41	SPY	730A
2K45	none	732D
2K48	BTC	374C Ø
4J38	none	766B
4J52A	LIT	800E AMEND 1
4J57	none	40D
4J58	none	40D
4J59	none	40D
5J26	APX	205F AMEND 2
6BL6	LIT	745G
6BM6	LIT	744G
6BM6A	LIT	746G
417C	VAR	1537A
721B	VET	1432A
726B	none	500B
726C	none	981C
5586	APX	770B
5657	APX	770B
5721	BTC	135D
5780	LIT	851F AMEND 1
5795	none	1522B
5836	none	601C
5837#1	none	602DØ
5837#2	none	602DØ
5837#3	none	602DØ
5837#4	none	602DØ
5863	MIC OWE VET	298E
5864	MIC OWE VET	22H
5865	VET	368E
5921	OWE VET	607B
5922	OWE VET	607B
5927	OWE VET	299E
5981	none	936C
6002	none	373B
6024	VET	796A NAVY
6081	OWE VET	384B
6115A	none	845C
6133	none	200C ΔØ
6162	OWE VET	22H
6163	none	999A
6177A	none	666E
6233	none	1704 USAF
6236	BTC	264F
6248	none	1554A AMEND 1 USAF
6310	OWE VET	605C
6312	VET	669C
6315	none	553A USAF
6322	OWE VET	370E
6344A	LIT	383C NAVY
6378	OWE VET	964B
6390	BTC	840D ΔØ NAVY
6402	none	805A NAVY
6410A	none	665D
6460	VAR	923C
6510	LIT	835B
6517	none	1315C
6543	LIT	849E AMEND 1
6551	none	848A USAF
6560	MIC OWE VET	837D
6584	none	1338B AMEND 2 NAVY
6781	OWE VET	1180C Ø
6795A	none	1675 EL
6962	none	1071B EL
6975	VET	1081C
6995	VAR	901 AMEND B
7006	none	1461D
7049#1	none	1715
7049#2	none	1715
7111	LIT	1243A
7152	none	1016F AMEND 1
7156A	LIT	1570C NAVY
7166	none	1232C AMEND 1
7208	none	1594A MI
7208B	LIT	1523B AMEND 1
7256	none	1618A
7381	MIC OWE VET	1254B
7417	OWE	1588 NAVY
7452A	none	507F EL
7460	LIT	1600 NAVY
7471	VAR	1283A ΔØ
7504	none	1322A USAF
7511	SPY	1119H ΔØ
7521	none	1329 AMEND 3 SigC
7529M	none	1036C
7547	none	1700 USAF
7640	HAC	1405B
7661	none	1685 AMEND 3 USAF
7824	none	1686 AMEND 1 USAF
7829A	VAR	1622A USAF
7849	none	1699 USAF
7902	none	1671 AMEND 1 USAF
8076A	WJC	1666 NAVY
8128	none	1605 AMEND 1 NAVY
8129D	none	1742 NAVY
8129F	none	1743 NAVY
8175	none	1623A Ø AMEND 2
8196	none	1520A Ø NAVY
8199	none	1689 USAF
8225	none	1493A USAF
8237	none	1589B Ø NAVY
8258	none	1492A USAF
8279	none	1467A USAF
8280	none	1468A
8312	none	1672 USAF
8313	none	1673 USAF
8315	SPY	1290D Ø NAVY
8316	SPY	1288D AMEND 1
8361	none	1228C Ø AMEND 1 NAVY
8362	SPY	1653A Ø NAVY
8364	SPY	1654A Ø NAVY
8405	SPY VAR	1292D AMEND 1 NAVY
8406	SPY	1650A NAVY
8467	VAR	1571B Ø
8470	none	1674 USAF
8493	ITT SPY	1112E Ø AMEND 1
8551	none	1539 AMEND 1 EL
8634	none	1627 EL
8682	VET	1624 AMEND 1 NAVY
8742	VAR	1712A
8759	none	1677 EL
8763	none	1680 AMEND 1 NAVY
8766	none	1669 EL
8770	none	1643A NAVY
8798	APX	1688 USAF
8821	VAR	1668A AMEND 1
8827	VET	1664 NAVY
8848	none	1684 AMEND 1
8849	none	1668A AMEND 1
8855	LIT VET	1640A AMEND 1
8878	none	1692 AMEND 1 USAF
8879	none	1693 AMEND 1 USAF
8880	LIT	1694 AMEND 1 USAF
8881	LIT	1695 AMEND 1 USAF
8882	LIT	1696 AMEND 1 USAF
8896	none	1705A USAF
8898	none	1744 NAVY
8899	none	1745 NAVY
8900	none	1741 NAVY
8901	none	1690 AMEND 1 USAF
8919	none	1709
8922	none	1718
8934	none	1740 NAVY
8939	VET	1738
8943	none	1734
8945	none	1739 USAF
8947	none	1747
8956	none	1749 USAF
10658175	none	1644 AMEND 1 MI
10658176	none	1645 MI
10658181	none	1533C MI
10658182	none	1646
DOD001	none	1687
DOD002	none	485D
DOD004	VET	1701A AMEND 1
DOD005	VET	1703 AMEND 1
DOD007	none	1708 AMEND 1 NAVY
DOD008	none	1710 USAF
DOD009	none	1713
DOD010	none	1714 AMEND 1 NAVY
DOD011	none	1719
DOD012	none	1720
DOD013	none	1720
DOD015	none	1722
DOD016	none	1723
DOD017	none	1724 AMEND 1 NAVY
DOD019	none	1730A USAF
DOD020	none	1731A
DOD021	none	1732A
DOD022	none	1732A
DOD023	none	1736
DOD024	none	1736
DOD025	none	1736
DOD028	none	1750 NAVY
DOD029	none	1751 NAVY
DOD030	none	1752 USAF
DOD031	none	1753 NAVY
DOD032	none	1754 NAVY
DOD033	none	1755 NAVY
DOD0141	none	1721
SOU293	none	1528A NAVY
SRL7F	none	1012A AMEND 1 SigC
SRL7G	none	1012A AMEND 1 SigC
SRL7H	none	1012A AMEND 1 SigC
VA220B	VAR	1631A

MILITARY DOCUMENTS

Department of Defense Index of Specifications and Standards, dated 1 September 1972, Supplement, dated 1 May 1973.

Device Manufacturers Qualifications on Test Reference Letter.

MIL–E–1H– Military Specifications Electron Tube, General Specifications for, dated 9 May 1974, Supplement 1, dated 19 August 1974.

MIL–STD–200J– Military Standard, Electron Tube Selection and Use of, dated 22 November 1968, Notice 2, dated 2 June 1970.

QPL–1–69 Qualified Products List of Products, Qualified Under Military Specification, MIL–E–1, dated 13 May 1974, Amendment 2, dated 2 August 1974.

Ø - Mil-Std-200 Device
△ - Preferred
(For Additional Information See MIL-STD-200)

DISCONTINUED

X 1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
1AM10	NJRC	22-104	6V301	TOSJ	11-23	197H	HAC	14-101	4098	RCA	30-78	8574	OWE	32-18
1AM90	TOSJ	22-105	6V302	TOSJ	11-35	210H	HAC	24-37	5586A	EEVB	17-80	8578	OWE	32-20
1AV40	TOSJ	15-69	6V303	TOSJ	11-48	212H	HAC	24-38	JAN6027	LIT	20-82	JAN8599	none	32-19
1AV80	NECJ	15-68	6V311	TOSJ	11-31	215H	HAC	26-72		MIC		8622	OWE	32-15
1B35	ΔGESY	32-4	6V431	TOSJ	11-24	216H	HAC	24-34	6037		11-8	8623	OWE	32-14
1B36	ΔGESY	32-1	6V432	TOSJ	11-36	217H	HAC	28-27		RTN		JAN8677	none	8-108
1B37	ΔGESY	32-3	6V433	TOSJ	11-49	218H	HAC	23-88	JAN6116	KLY	12-49	8738	OWE	32-6
JAN1B40	VET	32-11	7M401	NJRC	18-86	220H	HAC	24-35				8739	OWE	32-7
JAN1K75CK	none	none	7M402	NJRC	18-87	224H	HAC	26-66	JAN6229	none	19-83	8740	OWE	32-16
Repl.by JAN8199 Cur.			7M403	NJRC	18-89	226H	HAC	26-65	6237	GESY	15-39	8764-QKH1448	NJRC	18-31
1M70	TOSJ	16-109	7M404	NJRC	18-90	227H	HAC	28-29	6238	GESY	15-40	8811	Δ♦RCA	15-105
1V20	TOSJ	15-73	7M405	NJRC	18-92	228H	HAC	24-44	6239	GESY	15-41	8824	Δ♦RCA	15-66
1W10	NECJ	23-15	7M406	NJRC	18-93	236H	HAC	31-15	6240	GESY	15-42	8825	Δ♦RCA	15-77
JAN2J22	none	18-18	7M407	NJRC	18-94	237H	HAC	28-35	6241	GESY	15-43	JAN8834	none	22-73
JAN2J39	none	18-17	7V206	NECJ	11-87	241H	HAC	24-19	6242	GESY	15-44	8840	ΔRCA	16-69
JAN2J41	none	20-46	7V255	NECJ	11-75	247H	HAC	24-20	JAN6249B	none	19-52	JAN8864	none	22-48
2J42/JP9-7	MULB	20-57	7V304	TOSJ	11-59	260H	HAC	26-90	6270	MIC	21-58	55029	APX	21-49
JAN2J48	none	20-47	7V305	TOSJ	11-72	274H	HAC	30-52	6272	MIC	21-45	55030	APX	21-1
2J51A/JPT9-60	MULB	19-44	7V306	TOSJ	11-95	281H	HAC	24-56	6273	MIC	19-92	55031	APX	16-101
JAN2J53	none	20-59	7V434	TOSJ	11-60	306H	HAC	27-22	6274	MIC	19-41	55032	APX	19-62
JAN2J56	none	20-3	7V435	TOSJ	11-73	312H	HAC	25-68	6275	MIC	20-21	55085-01	APX	18-29
2J56/JP9-50	MULB	20-8	7V436	TOSJ	11-96	314H	HAC	23-104	JAN6316	VAR	10-45	55085-02	APX	18-28
2K25/KS9-20A	MULB	12-48	7W10	TOSJ	28-22	315H	HAC	9-31		VET		55085-03	APX	18-26
2K33	NJRC	14-9	7W25	TOSJ	28-24	321H	HAC	25-97	6402-QKH437	NJRC	22-75	55085-04	APX	18-23
2K50	KLY	14-14	7W50	NECJ	28-19	333H	HAC	8-51	JAN6402QK437	RTN	none	55100-01	APX	18-8
JAN2K54	none	10-35	7W70	NECJ	28-21	334H	HAC	25-69	Repl.by JAN6402 Cur.			55100-02	APX	18-4
JAN2K55	none	10-36	8V207	NECJ	11-101	335H	HAC	8-80	6406A-QKH428A	NJRC	22-72	55100-03	APX	17-99
2M10	NJRC	17-25	8V307	TOSJ	11-107	336H	HAC	8-93	6410A-QKH338A	NJRC	22-70	55100-04	APX	17-94
2M34	HITJ	22-34	8V308	TOSJ	12-4	339H	HAC	9-26	6444F1	MIC	21-85	55125	APX	17-63
2M52	NECJ	22-35	8V313	TOSJ	12-8	340H	HAC	25-70	6444F2	MIC	21-75	55340	APX	26-73
NJRC	TOSJ		8V437	TOSJ	11-108	341H	HAC	25-110	6444F3	MIC	21-52	A1056	RCA	23-39
2M54	TOSJ	17-37	8V438	TOSJ	12-5	350H	HAC	25-71	6444F4	MIC	20-22	A1056V2	RCA	23-41
2M59	TOSJ	17-38	9M10	NJRC	22-52	354H	HAC	25-89	6444F5	MIC	19-68	A1078V1	RCA	26-6
2M60	TOSJ	17-58		TOSJ		362H	HAC	24-65	6444F6	MIC	19-23	A1078V10	RCA	24-26
2M61	TOSJ	22-77	9M27	TOSJ	22-54	364H	HAC	25-72	6517-QKH358	NJRC	17-6	A1113V8	RCA	25-100
2M65	NJRC	17-30	9M28	TOSJ	22-59	379H	HAC	26-5	JAN6517QK358	none	none	A1138V1	RCA	25-38
	TOSJ		9M42	TOSJ	22-32	381H	HAC	9-73	Repl.by JAN6517 Cur.			A1177	RCA	30-18
2M67	NJRC	17-31	9M43	TOSJ	22-58	382H	HAC	27-91	JAN6518QK254	none	17-91	A1181	RCA	29-72
2M71	♦HITJ	22-38	9M50	NJRC	21-48	384H	HAC	26-71	6541	KLY	14-15	A1181V2	RCA	29-85
2M75	NJRC	17-27	9M55	TOSJ	22-56	390H	HAC	26-2	JAN6541	none	10-50	A1200V3	RCA	24-108
2M89	NECJ	17-44	9M56	TOSJ	22-60	391H	HAC	23-94	6584	KLY	11-10	A1201	RCA	25-23
NJRC	TOSJ		9M64	TOSJ	21-23	392H	HAC	23-95	JAN6619	GESY	32-5	A1201V1	RCA	25-24
2M90	NJRC	17-50	9M72A	TOSJ	21-26	394H	HAC	24-10	JAN6621	GESY	32-2	A1203	RCA	29-70
2M91	NJRC	17-51	9W90	NECJ	29-61	410H	HAC	23-74	6658	ITT	24-72	A1205	RCA	26-85
2V10	TOSJ	10-101	11V53	NECJ	13-40	411H	HAC	23-43	6784	MIC	26-7	A1207	RCA	25-101
2V32	TOSJ	10-100	11V54B	NECJ	13-43	412H	HAC	24-4	JAN6784	none	26-8	A1207V17	RCA	25-98
2W401	TOSJ	23-109	11V71	NECJ	13-26	419HD	HAC	23-101	6818	MIC	19-42	A1207V26	RCA	24-17
JAN3K23	none	10-26	11W18	TOSJ	30-45	511H	HAC	25-92	6819	MIC	19-93	A1207V29	RCA	26-26
JAN3K27	none	10-25	11W30	TOSJ	30-41	516H	HAC	25-102	6822	MIC	21-59	A1215	RCA	30-91
3M901	TOSJ	17-74	15V20	TOSJ	13-81	518H	HAC	25-88	6825	ITT	25-73	A1217	RCA	23-38
3M902	TOSJ	17-76	15V64	NECJ	13-79	519H	HAC	25-106	6826	ITT	25-74	A1217V4	RCA	23-96
3M903	TOSJ	17-83	15W70	NECJ	30-90	520H	HAC	25-86	6868	ITT	24-73	A1221	RCA	25-42
3M904	TOSJ	17-89	24M10	OKIJ	22-11	528H	HAC	26-61	JAN6940	KLY	10-44	A1225	RCA	30-96
3V10	TOSJ	10-105	24V20	NECJ	14-19	530H	HAC	31-11		none		A1268	RCA	23-60
3V30	TOSJ	10-104	30BT	BTC	14-32	535H	HAC	26-3	6972	APX	20-101	A1294	RCA	23-56
3W20	TOSJ	24-63	30BT/A	BTC	14-33	537H	HAC	26-24		MULB		A1295	RCA	24-109
3W90	NECJ	24-57	30V16	OKIJ	14-31	546H	HAC	25-48	6994	OWE	13-89	A1297	RCA	24-100
3W402	TOSJ	24-55	30V150	OKIJ	14-30	550H	HAC	25-87	JAN6994	none	10-49	A1301	RCA	25-25
JAN4J31	none	17-90	31LV10	OKIJ	10-83	557H	HAC	26-62	6996	ITT	28-82	A1304	RCA	28-102
JAN4J32	none	17-85	31V151	OKIJ	14-37	565H	HAC	25-58	7028	APX	21-21	A1308	RCA	24-110
JAN4J33	none	17-78	32V152	OKIJ	14-38	566H	HAC	25-67	7040-QKH456	NJRC	18-43	A1309	RCA	25-26
JAN4J34	none	17-72	33M10	OKIJ	22-12	615H	HAC	26-86	JAN7069	none	11-12	A1310	RCA	26-69
JAN4J35	none	17-68	33V11	OKIJ	14-42	616H	HAC	26-94	JAN7071	none	13-17	A1311	RCA	25-27
JAN4J36	none	18-32	33V153	OKIJ	14-40	623H	HAC	27-76	JAN7088	none	18-55	A1312	RCA	25-45
JAN4J37	none	18-30	34LV10	OKIJ	10-84	624H	HAC	27-98	7091	APX	17-59	A1313	RCA	25-1
JAN4J39	none	18-27	34LV20	OKIJ	10-85	625H	HAC	27-97	7156-QKH662	NJRC	18-49	A1314	RCA	25-39
JAN4J40	none	18-24	34V154	OKIJ	14-47	650H	HAC	27-94	7292	APX	17-60	A1316	RCA	25-59
JAN4J41	none	18-22	35BT	BTC	14-59	651H	HAC	28-48	7338	ITT	25-75	A1317	RCA	23-28
JAN4J42	none	16-106	35BT/A	BTC	14-60	653H	HAC	27-85	7340	ITT	29-48	A1318	RCA	26-23
JAN4J50	LIT	20-62	35M10	NJRC	22-21	654H	HAC	27-89	JAN7361	none	22-17	A1320	RCA	25-54
4J50/JP9-250	MULB	21-4		OKIJ		713H	HAC	29-31	JAN7397	none	18-5	A1322	RCA	26-63
JAN4J50A	LIT	22-57	35V20	NECJ	14-53	714H	HAC	29-73	7414	OWE	18-82	A1323	RCA	26-67
JAN4J51	none	17-1	35V30	OKIJ	14-48	723A/B/KS9-20		12-56	7444	OWE	18-72	A1327	RCA	25-2
4J52A/JP9-80	MULB	20-103	35V51	OKIJ	14-58		♦MULB		7445	OWE	20-27	A1350	RCA	23-93
4J52T	THC	19-50	35V61	OKIJ	14-55	723A#1	♦MULB	12-16	JAN7452	none	none	A1350V1	RCA	23-36
JAN4J54	none	18-95	35V155	OKIJ	14-56	723A#2	♦MULB	12-94	Repl.by JAN7452A Cur.			A1351	RCA	28-103
JAN4J55	none	18-91	36V156	OKIJ	14-63	723B	♦MULB	12-57	7452-QKH324	NJRC	21-93	A1358	RCA	27-6
JAN4J56	none	18-88	40BT	BTC	14-68	726C-N	TOSJ	10-106	7460-QKH686	NJRC	18-50	A1359	RCA	26-92
4J78	APX	19-63	40BT/A	BTC	14-69	726H	HAC	29-30	JAN7472	none	11-11	A1360	♦RCA	27-46
	MULB		45BT	BTC	14-73	JAN730A	none	20-93	7484A-QKH470A	NJRC	17-7	A1361	RCA	27-96
4J78/JP9-250A	MULB	19-64	45BT/A	BTC	14-74	732H	HAC	29-20	JAN7484QK470	none	17-8	A1365	RCA	24-36
4K3CC	VAR	10-67	45LV10	OKIJ	10-90	773H	HAC	30-44	JAN7503	none	21-20	A1367	RCA	25-20
4K50000LQ	VAR	15-89	47BT	BTC	14-75	810H	HAC	10-70	7506	KLY	10-96	A1368	RCA	23-45
4KM170000LA	VAR	15-65	47BT/A	BTC	14-76	811H	HAC	10-71	7529-QKH327	NJRC	22-69	A1372	RCA	25-18
4KMP10000LF	VAR	15-74	50BT	BTC	14-78	815H	HAC	31-22	7537	APX	26-87	A1374	RCA	24-105
4KMV100LA	VAR	15-70	50BT/A	BTC	14-79	818H	HAC	30-102	7642	RCA	23-107	A1375	RCA	26-64
4KMV100LF	VAR	15-79	50BW10	OKIJ	9-71	824H	HAC	31-1		TOSJ		A1378	RCA	29-24
4KMV100LH	VAR	15-87	50LV10	OKIJ	10-92	1006H	HAC	26-91	7787	KLY	12-62	A1379	RCA	29-8
4KMV150LA	VAR	15-71	50M10	OKIJ	22-27	1007H	HAC	27-77	JAN7797	none	10-12	A1381	RCA	24-84
4KMV150LF	VAR	15-80	55BT	BTC	14-80	1008H	HAC	24-18	7823	OWE	32-12	A1382	RCA	27-12
4KMV150LH	VAR	15-88	55BT/A	BTC	14-81	1075H	HAC	25-49	7847	ITT	27-8	A1383	RCA	29-89
4V32	TOSJ	11-4	60BT	BTC	14-82	1076H	HAC	29-65	7901	OWE	32-9	A1384	RCA	24-91
4W30	TOSJ	26-53	60BT/A	BTC	14-83	1080H	HAC	23-105	7902	OWE	32-10	A1385	RCA	27-13
4W72A	NECJ	26-75	60M10	OKIJ	22-28	1112H	HAC	24-2	JAN7950	none	22-47	A1386	RCA	29-91
4W75A	NECJ	26-68	65BT	BTC	14-85	1114H	HAC	29-67	8088	OWE	32-8	A1387	RCA	23-27
5K50CB	VAR	16-76	65BT/A	BTC	14-86	1122H	HAC	24-3	8099	OWE	32-13	A1390	RCA	30-49
5K70SF	VAR	10-75	70BT	BTC	14-90	1153H	HAC	28-77	8128-QKW750B	NJRC	25-95	A1397	RCA	28-44
5K70SH	VAR	16-64	70BT/A	BTC	14-94	1164H	HAC	24-32	8129-QKS622	NJRC	22-107	A1398	RCA	30-92
5K300SG	VAR	16-66	75BT	BTC	14-97	1165H	HAC	28-47	8153	APX	22-24	A1399	RCA	30-55
5KM70SF	VAR	16-60	75BT/A	BTC	14-98	1181H	HAC	24-22	JAN8182	none	14-88	A1421	RCA	30-93
5M10	NJRC	22-46	75V10	OKIJ	14-96	1203H	HAC	24-46	JAN8198	none	29-87	A1422	RCA	30-6
5M35	NJRC	22-45	110H	HAC	9-47	1205H	HAC	30-109	JAN8230M	none	15-16	A1423	RCA	24-69
5M36A	TOSJ	18-37	111H	HAC	9-48	JAN4004	none	24-106	8330	OWE	32-21	A1424	RCA	24-70
5M71	TOSJ	18-38	112H	HAC	9-35	JAN4005	none	25-22	8331	OWE	32-17	A1425	RCA	24-68
6AV60	TOSJ	16-4	113H	HAC	9-36	4017	RCA	24-107	8379	RCA	24-48	A1426	RCA	24-71
6V26A	NECJ	11-44	171H	HAC	8-94	4020	RCA	27-1	JAN8404	SPY	10-37	A1427	RCA	28-73
6V26AM	NECJ	11-45	174H	HAC	9-19	4021	RCA	23-61		VAR		A1428	RCA	29-13
6V32	TOSJ	11-30	182H	HAC	9-79	4036	RCA	24-47	8406	VAR	10-77	A1429	RCA	27-68
6V201	NECJ	11-25	183H	HAC	9-81	4041	RCA	30-16	JAN8449	none	15-17	A1434	RCA	29-102
6V202	NECJ	11-38	184H	HAC	9-84	4053	RCA	23-79	8450	OWE	15-13	A1436	RCA	29-103
6V241	NECJ	11-32	190H	HAC	8-69	4054	♦RCA	24-9	JAN8450	none	15-14	A1438	RCA	30-51
6V251	NECJ	11-26	191H	HAC	9-5	4056	RCA	24-53	8460	KLY	12-52	A1440	RCA	30-54
6V252	NECJ	11-29	192H	HAC	9-40	4079	RCA	30-47	JAN8468	none	22-3	A1442	RCA	29-88
6V271	NECJ	11-33	196H	HAC	8-2	4093	RCA	30-71	8543	LIT	20-58	A1443	RCA	30-48

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Δ-Registered with JEDEC by this manufacturer

Obs-In this book

DISCONTINUED

X 1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
A1444	♦RCA	30-64	CV2852	MULB	20-9	F2514	ITT	8-52	K305	EEVB	12-79	L3429	LIT	20-34
A1445	♦RCA	27-78	CV3560	MULB	19-33	F2516	ITT	8-92	K308	EEVB	12-24	L3431	LIT	20-80
A1446	RCA	30-36	CV3602	MULB	17-4	F2517	ITT	8-50	K329	EEVB	15-46	L3434	LIT	21-87
A1451	RCA	25-17	CV3611	MULB	17-79	F2518	ITT	8-87	K343	EEVB	13-58	L3436	LIT	21-56
A1452	RCA	25-28	CV3676	MULB	20-70	F2520	ITT	8-104	K346	EEVB	13-86	L3452	LIT	21-94
A1453	RCA	27-35	CV3953	MULB	19-66	F2521	ITT	8-59	K350	EEVB	12-69	L3458	LIT	21-2
A1454	RCA	27-57	CV3982	EEVB	21-31	F4024	THC	25-107	K364	EEVB	12-77	L3470	LIT	27-95
A1455	RCA	30-77	CV3997	MULB	20-77	F4025	THC	27-4	K366A	♦EEVB	11-102	L3486	LIT	15-47
A1456	RCA	30-56	CV5018	MULB	20-104	F4026	THC	28-104	K366B	♦EEVB	11-88	L3496	LIT	21-95
A1457	RCA	28-41	CV5031	EEVB	19-65	F4029E	THC	8-1	K366C	♦EEVB	11-76	L3498	LIT	21-100
A1458	RCA	27-59		MOVB		F4053	THC	8-106	K366D	♦EEVB	11-62	L3513	LIT	20-83
A1459	♦RCA	29-101	CV5117	MOVB	18-19	F4061	THC	23-44	K366E	♦EEVB	11-39	L3531	LIT	10-30
A1460	RCA	30-84	CV5123	MULB	20-78	F4063	THC	23-47	K366G	♦EEVB	11-52	L3602	LIT	18-109
A1461	RCA	25-43	CV5235	MULB	20-10	F4100B	THC	25-19	K366J	♦EEVB	12-2	L3603	LIT	20-30
A1462	RCA	27-73	CV5249	MULB	12-46	F4101B	THC	27-55	K367A	♦EEVB	11-103	L3604	LIT	20-35
A1463	RCA	26-39	CV5443	MULB	21-15	F4102B	THC	29-68	K367B	♦EEVB	11-89	L3605	LIT	20-43
A1464	RCA	28-45	CV5900	MULB	11-69	F4104	WAR	31-21	K367C	♦EEVB	11-77	L3606	LIT	20-31
A1465	RCA	30-65	CV6034	MOVB	21-55	F4115	THC	31-10	K367D	♦EEVB	11-63	L3616	LIT	20-61
A1466	RCA	30-62	CV6035	MOVB	21-61		WAR		K367E	♦EEVB	11-40	L3690	LIT	10-94
A1467	RCA	27-2	CV6036	MOVB	21-72	F4123B	THC	23-57	K367G	♦EEVB	11-53	L3691	LIT	10-95
A1468	RCA	27-7	CV6072	MULB	19-9	F4134	THC	23-80	K367J	♦EEVB	12-3	L3693	LIT	10-91
A1473	♦RCA	27-79	CV6108	MULB	19-18	F4135	THC	25-50	K397	EEVB	14-107	L3695	LIT	20-44
A1476	♦RCA	30-58	CV6114	MULB	20-25	F4156B	THC	30-87	K3001	EEVB	12-17	L3707	LIT	10-74
A1478	RCA	30-83	CV6195	MULB	12-63	F4187	THC	8-49	K3002	EEVB	12-65	L3711	LIT	27-60
A1480	RCA	30-89	CV6199	MULB	20-85	F4188	THC	8-79	K3003	EEVB	12-88	L3725	LIT	8-47
A1481	RCA	28-58	CV6214	MULB	20-11	F4190	THC	9-54	K3020	EEVB	12-86	L3727	LIT	8-86
A1483	RCA	27-80	CV6215	MULB	20-14	F6658	ITT	24-86	K3020A	EEVB	12-28	L3735	LIT	10-76
A1484	RCA	30-82	CV6225	MULB	18-54	F6825	ITT	25-82	K3032	EEVB	10-80	L3739	LIT	10-27
A1485	RCA	26-47	CV6234	MULB	19-10	F6826	ITT	25-83	K3036	EEVB	14-6	L3757	LIT	21-6
A1486	RCA	30-85	CV6248	MULB	18-40	F6868	ITT	24-87	K3037	EEVB	14-5	L3759	LIT	21-91
A1487	RCA	30-66	CV6269	MULB	20-23	F6996	ITT	28-83	K3040	EEVB	14-35	L3765	LIT	10-3
A1494	RCA	30-68	CV8505	MULB	20-74	F7338	ITT	25-84	K3043	EEVB	10-88	L3812	LIT	20-36
A1496	RCA	30-70	CV8652	MULB	19-57	F7340	ITT	29-28	K3059	EEVB	10-89	L3815	LIT	29-25
BA47H	OKIJ	9-70	CV9334	MULB	12-85	F7824	ITT	8-57	K3060	EEVB	10-87	L3816	LIT	21-102
BA48H	OKIJ	9-69	CV9424	MULB	20-97	F7847	ITT	27-9	K3061	EEVB	10-86	L3820	LIT	18-106
BA50H	OKIJ	9-72	CV10758	MULB	21-38	F9076	THC	10-8	K3078	♦EEVB	12-40	L3845	LIT	23-63
BA54H	OKIJ	9-74	D95A	ITT	29-49	F9084	THC	10-9	K3101	EEVB	13-59	L3847	LIT	10-28
BLM020	VET	18-67	D95B	ITT	29-50	F9091	THC	10-10	K3101M	♦EEVB	13-74	L3849	LIT	26-81
BLM039	VET	19-31	D2009	ITT	27-69	F9099	THC	10-11	K3102	EEVB	13-87	L3874	LIT	22-1
BLM068	VET	22-9	D2029	ITT	24-66	GL7398	GESY	18-6	K3102M	♦EEVB	13-106	L3876	LIT	10-29
BLM076	VET	18-25	D2045	ITT	8-62	H3025	♦HITJ	22-43	KA243	OKIJ	14-11	L3898	LIT	29-46
BLM084	VET	18-83	DX151	APX	14-91	J2026	RCA	26-70	KA435	THC	15-100	L3909	LIT	10-4
BLM100	VET	18-73	DX164	APX	22-29	J2027	RCA	25-3	KA436	THC	15-101	L3910B	LIT	10-59
BLM144	VET	18-76	DX184	APX	14-46	J2046	RCA	23-46	KA437	THC	16-72	L3916	LIT	21-97
BLM152	VET	18-63	DX237	APX	14-104	J2053	RCA	29-92	KA438	THC	16-71	L3938	LIT	10-72
BLM163	VET	18-56	DX242	APX	14-102	J2055	RCA	26-108	KA501	OKIJ	14-77	L3950	LIT	22-4
BLM180	VET	22-92	DX247	APX	14-105	JNT1-500	♦MULB	17-5	KA801	OKIJ	14-99	L3951	LIT	22-5
BM25L	EEVB	16-110	DX249	APX	19-72	JP2-0.2	♦MULB	17-28	KAP1340	THC	16-54	L3976	LIT	22-8
BM1014	EEVB	17-75	DX250	APX	14-92	JP2-1A	MULB	17-43	KC31A	OKIJ	10-82	L3977	LIT	28-31
BM1015	EEVB	17-82	DX251	APX	14-89	JP8-02B	♦MULB	19-20	KC55B	OKIJ	10-93	L3980	LIT	10-73
BM1016	EEVB	17-84	DX252	APX	22-31	JP8-02C	MULB	19-11	KCT31B	OKIJ	10-81	L3994	LIT	29-29
BWJ4	MOVB	9-52	DX260A	APX	17-39	JP9-01	MULB	20-54	KH35	OKIJ	14-57	L3996	LIT	27-61
BWX3	MOVB	8-101	DX264	APX	14-103	JP9-2.5B	APX	19-108	KL23	OKIJ	14-8	L4218	LIT	22-19
CMA1229	THC	8-10	DX270	APX	19-73		MULB		KL24	OKIJ	14-21	L4242	LIT	20-76
CMP1230	THC	8-6	DX279	APX	14-93	JP9-2.5C	APX	21-57	KR6/2	EMIB	10-109	L4264	LIT	21-82
CO10-1	THC	9-88	DX287	APX	22-30		MULB		KR6/3	EMIB	10-108	L4306	LIT	22-18
	WAR		DX312	APX	17-40	JP9-2.5K	MULB	19-94	KRN3/1	EMIB	12-100	L4310	LIT	19-53
CO10-400	WAR	9-89	E3072	MOVB	21-79	JP9-2.5L	♦MULB	21-39	KS7-85	APX	11-70	L4316	LIT	22-10
CO15	WAR	9-87	E3260	♦MOVB	21-104	JP9-2.5M	MULB	21-40		♦MULB		L4328A	LIT	22-7
CO20-5	THC	9-85	E3276	MOVB	21-78	JP9-2.5N	MULB	19-101	KS7-85A	MULB	11-68	L4371	LIT	20-109
	WAR		E3320	♦MOVB	21-88	JP9-7B	MULB	21-60	KS7-85B	MULB	11-99	L4380	LIT	20-81
CO20AEA	THC	9-86	E3509	TOSJ	21-27	JP9-7C	MULB	20-72	KS7-85C	MULB	11-57	L4385	LIT	19-51
CO20BEA	THC	9-83	E3510	TOSJ	18-47	JP9-7E	MULB	19-36	KS7-85E	MULB	11-67	L4417	LIT	22-93
CO30	WAR	9-80	E3639	TOSJ	17-45	JP9-7F	MULB	19-69	KS9-20A	♦MULB	12-51	L4450	LIT	21-54
CO35	WAR	9-78	E3808	TOSJ	23-1	JP9-7G	MULB	19-96	KS9-20F	MULB	12-82	L4490	LIT	19-54
CO40-30	WAR	9-76	EM102	VAR	25-94	JP9-7M	MULB	20-73	KS9-20M/2K25	MULB	12-78	L4510	LIT	19-47
CO40AEA	THC	9-77	EM108	VAR	25-76	JP9-15B	♦MULB	21-41	KS9-30	♦MULB	12-47	L4590	LIT	none
CO40BEA	THC	9-75	EM118	VAR	25-60	JP9-15C	MULB	20-79	KS9-4[illegible]	♦MULB	12-87	Repl.by 8945 Cur.		
CO43C	THC	8-98	EM1044	VAR	28-67	JP9-15E	MULB	19-35	KS35-50	MULB	11-1	L5005	LIT	25-55
CO63C	THC	8-84	EM1061	VAR	25-46	JP9-15F	MULB	19-70	KY366A	EEVB	11-104	L5006	LIT	28-80
CO70	WAR	9-68	EM1199	VAR	27-83	JP9-15G	MULB	19-97	KY366B	EEVB	11-90	L5023	LIT	29-77
CO94C	THC	8-56	EM1207	VAR	26-60	JP9-22B	MULB	21-51	KY366C	EEVB	11-78	L5024	LIT	10-24
CO119C	THC	8-40	F1001	THC	18-16	JP9-22C	MULB	21-70	KY366D	EEVB	11-64	L5026	LIT	28-78
CO127D	THC	8-34	F1007	THC	18-2	JP9-22D	MULB	19-98	KY366E	EEVB	11-41	L5027	LIT	22-2
CO210C	THC	8-24	F1097	THC	19-25	JP9-22L	MULB	21-50	KY366G	EEVB	11-54	L5029	LIT	22-94
CO515E	THC	8-15	F1112	THC	17-52	JP9-22R	MULB	20-2	KY367A	EEVB	11-105	L5031	LIT	10-6
CO521B	THC	9-23	F2009⍁	ITT	27-70	JP9-50A	MULB	20-98	KY367B	EEVB	11-91	L5044	LIT	10-57
CO521C	THC	9-25	F2011	THC	15-49	JP9-80	♦MULB	20-105	KY367C	EEVB	11-79	L5048	LIT	22-91
CO1308B	THC	9-63	F2018	ITT	30-19	JP9-80A	MULB	20-4	KY367D	EEVB	11-65	L5077	LIT	25-40
CO2012B	THC	9-56	F2019	ITT	27-81	JP9-180	MULB	20-107	KY367E	EEVB	11-42	L5082	LIT	27-92
CO-04	THC	9-95	F2029	ITT	24-67	JP9-250A	MULB	19-67	KY367G	EEVB	11-55	L5085	LIT	26-38
CO-05	WAR	9-94	F2032	ITT	27-21		♦MULB		L2301	LIT	25-4	L5086	LIT	29-47
CO-06	WAR	9-92	F2036	ITT	24-74	JP9-250B	APX	19-27	L2304	LIT	30-24	L5088	LIT	24-101
CO-06EA	WAR	9-93	F2041	ITT	29-26		♦MULB		L2318	LIT	23-62	L5096	LIT	15-48
CO-09	THC	9-90	F2045	ITT	8-63	JP9-250C	APX	19-29	L2334	LIT	23-75	L5101	LIT	15-95
	WAR		F2046	ITT	8-91		♦MULB		L2350	LIT	25-47	L5104	LIT	20-38
CO-09EA	WAR	9-91	F2047	THC	15-92	JP9-250D	APX	19-5	L3083A	LIT	21-106	L5109	LIT	16-67
CV76	MOVB	18-3	F2048Δ	ITT	29-27		♦MULB		L3087A	LIT	20-28	L5112	LIT	22-90
CV160	MOVB	18-11	F2048#	THC	15-72	JP9-250E	APX	18-108	L3089	LIT	19-13	L5118	LIT	28-92
CV192	MOVB	18-20	F2052	THC	15-50		♦MULB		L3101	LIT	21-107	L5119	LIT	27-93
CV214	MOVB	21-74	F2055#	ITT	8-17	JP9-250F	MULB	20-7	L3106	LIT	19-45	L5120	LIT	16-56
CV217	EMIB	12-99	F2056	ITT	8-41	JP35-30	♦MULB	22-20	L3106A	LIT	19-46	L5128	LIT	26-34
CV370	EEVB	22-49	F2057	ITT	25-77	JPG8-01	MULB	19-24	L3146	LIT	8-60	L5138	LIT	28-93
MOVB	MULB		F2058	ITT	25-78	JPG8-01B	MULB	18-103	L3147	LIT	8-85	L5158	LIT	27-37
CV722	MULB	20-94	F2059	ITT	24-64	JPG8-02B	MULB	19-6	L3148	LIT	8-109	L5168	LIT	26-33
CV1795	MULB	12-55	F2060	ITT	26-25	JPG9-01	MULB	21-9	L3168	LIT	20-90	L5182	LIT	16-75
CV1866	MULB	20-71	F2061	ITT	25-79	JPG9-02	MULB	21-16	L3180	LIT	19-107	L5187	LIT	21-103
CV2111	MOVB	21-84	F2062	ITT	25-80	JPG9-02B	MULB	19-110	L3181	LIT	20-19	L5195	LIT	16-74
CV2112	MOVB	21-81	F2063	ITT	26-1	JPG9-02C	MULB	21-17	L3187	LIT	20-20	L5204	LIT	17-3
CV2113	MOVB	21-76	F2064	ITT	25-105	JPT6-1	MULB	18-41	L3212	LIT	19-34	L5205	LIT	17-95
CV2114	MOVB	21-63	F2065	ITT	25-81	JPT8-01	MULB	19-22	L3213	LIT	19-60	L5206	LIT	18-99
CV2284	MULB	21-3	F2071	ITT	28-63	JPT8-01B	MULB	18-104	L3214	LIT	19-79	L5207	LIT	21-62
CV2353	EMIB	11-6	F2072	ITT	30-20	JPT8-01C	MULB	18-105	L3218	LIT	19-95	L5248	LIT	10-56
CV2354	EMIB	11-5	F2073	ITT	25-90	JPT9-01	APX	20-55	L3226	LIT	19-100	L5407	LIT	22-87
CV2373	MULB	20-106	F2075	ITT	23-51		MULB		L3238	LIT	20-49	LA9-3B	♦MULB	29-69
CV2420	MULB	20-53	F2076	ITT	8-61	JPT9-01C	MULB	21-10	L3239	LIT	20-41	LB3-250B	♦MULB	25-65
CV2421	MULB	21-14	F2080	ITT	28-74	JPT9-01D	MULB	20-24	L3314	LIT	19-30	LB4-8	MULB	26-74
CV2424	MULB	18-107	F2507	ITT	8-22	JPT9-01K	MULB	21-11	L3326	LIT	21-92	LB4-30	MULB	10-15
CV2425	MULB	19-4	F2508	ITT	8-12	JPT9-01M	MULB	21-12	L3379	LIT	19-86	LB6-25AM	MULB	28-26
CV2426	MULB	19-26	F2509	ITT	8-33	JPT9-01N	MULB	21-13	L3380	LIT	19-88	LB6-25M	MULB	28-9
CV2427	MULB	19-28	F2510	ITT	8-68	JPT9-02	MULB	21-18	L3381	LIT	19-89	LB7-20	MULB	28-39
CV2473	MULB	20-6	F2511	ITT	9-3	JPT9-02D	MULB	21-19	L3382	LIT	19-90	LB7-20E	♦MULB	28-38
CV2792	MULB	12-45	F2512	ITT	8-55	JPT9-02E	MULB	20-26	L3383	LIT	21-99	LD508B	NECJ	26-45
CV2793	MULB	19-21	F2513	ITT	8-25	JPT9-60	♦MULB	19-71	L3384	LIT	20-33	LD550A	NECJ	28-28

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK Obs-In this book

Δ-Registered with JEDEC by this manufacturer

DISCONTINUED

X 1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
LD593A	NECJ	30- 42	M5180	MEC	24-102	MA2339	MIC	23- 82	MXK64	OWE	12- 66	RW130	WAR	23- 66
LD670	NECJ	13- 44	M5182	MEC	27- 33	MA2340	MIC	28- 75	MXK66	OWE	12- 1	RW131	WAR	23- 67
LD731	NECJ	24- 52	M5201	MEC	30-101	MA2341	MIC	23- 21	MXK67	OWE	12- 67	RW132	WAR	23- 68
LD764	NECJ	13-110	M5205	MEC	26- 15	MA2345	MIC	29- 93	MXK68	OWE	13- 28	RW700	WAR	9- 55
LD788	NECJ	13- 25	M5222	MEC	29- 64	MA2346	MIC	23- 77	MXK69	OWE	13- 54	RW701	WAR	9- 30
LD805	NECJ	13- 37	M5223	MEC	23- 90	MA2347	MIC	25- 41	MXK72	OWE	13- 27	RW702	WAR	9- 22
LD811	NECJ	11- 17	M5227	MEC	29-106	MA2348	MIC	27- 71	MXK73	OWE	12- 72	RW703	WAR	8-110
LD844	NECJ	27- 99	M5234	MEC	26- 16	MA2349	MIC	29- 84	MXM10	OWE	20- 63	RW704	WAR	8- 90
LD847	NECJ	16- 85	M5238	MEC	26-100	MA2350	MIC	25- 52	MXM11	OWE	20- 60	RW705	WAR	8- 81
LD860	NECJ	26- 76	M5239	MEC	28- 87	MA2351	MIC	29- 12	MXM12	OWE	20- 68	RW706	WAR	8- 54
LD861	NECJ	26- 54	M5240	MEC	27- 25	MA2352	MIC	26- 58	MXM13	OWE	18-110	RW707	WAR	8- 48
LD883	NECJ	28- 20	M5241	MEC	29- 90	MA2354	MIC	26-109	MXM14	OWE	20- 13	RW708	WAR	8- 42
LD934	NECJ	17- 34	M5242	MEC	9- 53	MA2600	MIC	10-110	MXM15	OWE	20- 67	RW709	WAR	8- 35
LD951	NECJ	17- 35	M5247	MEC	8- 11	MAG2	MOVB	21- 35	MXM16	OWE	19-104	RW710	WAR	8- 23
LD4011	♦NECJ	16- 82	M5252	MEC	9- 57	MAG3	MOVB	22- 33	MXM20	OWE	20- 64	RW711	WAR	8- 20
LD4022	NECJ	23- 26	M5275	MEC	25- 96	MAG4A	MOVB	22- 53	MXM21	OWE	20- 65	RW712	WAR	8- 16
LD4044	NECJ	26- 95	M5276	MEC	27- 38	MAG5	MOVB	21- 32	MXM22	OWE	20- 16	RW713	WAR	8- 8
LD4052	♦NECJ	28- 2	M5277	MEC	29- 76	MAG7	MOVB	22- 62	MXM23	OWE	19- 1	RW714	WAR	8- 7
LD4069	NECJ	16- 78	M5288	MEC	29- 98	MAG8	MOVB	21- 7	MXM24	OWE	20- 17	RW715	WAR	8- 5
LD4118	NECJ	16- 80	M5328	MEC	29- 14	MAG9	MOVB	21- 33	MXM25	OWE	19- 3	RW716	WAR	8- 3
LD4132	NECJ	16- 81	M5334	MEC	9- 21	MAG10	MOVB	21- 83	MXM26	OWE	19-103	RW717	WAR	8- 36
M159	NJRC	22- 44	M5341	MEC	25- 5	MAG10A	MOVB	21- 73	MXM28	OWE	19- 87	RW718	WAR	8- 9
M165R	NJRC	17- 32	M5348	MEC	27- 87	MAG11	MOVB	21- 34	MXM29	OWE	21- 64	RW1110	♦SIEG	30- 67
M180	NJRC	17- 46	M5349	MEC	28- 68	MAG12A	MOVB	20- 45	MXM30	OWE	20- 42	RW1120	SIEG	30- 69
M182	NJRC	21- 24	M5356	MEC	23- 91	MAG14	MOVB	19- 80	MXM31	OWE	21- 69	RW05	SIEG	8- 82
M185	NJRC	21- 22	M5357	MEC	25- 6	MAG16	MOVB	21- 46	MXM32	OWE	19- 85	RW051	♦SIEG	8- 77
M190	NJRC	22- 74	M5358	MEC	27- 47	MAG16A	MOVB	21- 29	MXM33	OWE	19-105	RW0110	♦SIEG	9- 82
M194	NJRC	16-102	M5359	MEC	28-106	MAG16B	MOVB	20- 88	MXM34	OWE	20- 66	SAC406	SPY	15- 55
M199	NJRC	22- 63	M5360	MEC	30- 25	MAG18	MOVB	21- 47	MXM35	OWE	19- 2	SAC417	SPY	15- 59
M502A	EEVB	20-108	M5361	MEC	30- 39	MAG18A	MOVB	21- 30	MXM36	OWE	20- 56	SAC4062	SPY	15-108
M508	EEVB	20- 1	M5363	MEC	26- 17	MAG18B	MOVB	20- 89	MXM37	OWE	19- 61	SAC4170	SPY	15- 56
M546	EEVB	21- 80	M5378	MEC	29- 83	MC567A,B-J	THC	17- 9	MXM38	OWE	19- 14	SAC4173	SPY	15- 57
M547	EEVB	21- 86	M5379	MEC	25-109	MCF1145	THC	19- 48	MXM39	OWE	19- 15	SAC4175	SPY	15- 58
M591B	EEVB	21- 43	M5388	MEC	25- 7	MCF1464	THC	22- 88	MXM40	OWE	19- 17	SAC4890	SPY	10- 39
M1207	NJRC	21- 90	M5397	MEC	25- 8	MCK10	OWE	11- 47	MXM42	OWE	19- 32	SAC4900	SPY	10- 40
M1208	NJRC	17- 29	M5399	MEC	28-107	MCK12	OWE	11- 98	MXM43	OWE	20- 87	SAC4910	SPY	10- 42
M1210B	NJRC	22- 66	M5403	MEC	28- 64	MCM12	OWE	18- 84	MXM44	OWE	20- 37	SAC4920	SPY	10- 41
M1214	NJRC	17- 57	M5427	MEC	29- 17	MCM14	OWE	18- 85	MXM45	OWE	20- 32	JANSAL39AM	SPY	none
M1217	NJRC	17- 61	M5434	MEC	28- 65	MCM15	OWE	18- 60	MXM46	OWE	19-106	Repl.by JAN8493 Cur.		
M1218	NJRC	17- 53	M5452	MEC	26- 22	MCM16	OWE	18- 74	MXM47	OWE	19- 81	SAL166	SPY	16- 94
M1228	NJRC	17- 54	M5627	MEC	23- 85	MCM18	OWE	18- 68	MXM48	OWE	20- 52	SAS28	SPY	10- 58
M1263	NJRC	21- 28	M5628	MEC	25- 62	MCM19	OWE	18- 69	MXM50	OWE	19- 84	SAS1592	SPY	16- 68
M2102F2	MEC	23- 54	M5629	MEC	30- 33	MCM20	OWE	18- 52	MXM52	OWE	19- 82	SAS53101	SPY	10- 33
M2102F	MEC	23- 55	M5648	MEC	26- 48	MCM21	OWE	18- 65	MXM53	OWE	19- 16	SAX253	SPY	15- 63
M2103Y	MEC	26- 14	M5651	MEC	26- 37	MCM22	OWE	18- 70	MXM54	OWE	20- 39	SAX418	SPY	15- 61
M2105J	MEC	28-105	M5658	MEC	29- 15	MCM26	OWE	18- 75	MXM55	OWE	20- 40	SAX4181	SPY	16- 12
JANM2106G	MEC	28- 94	M5660	MEC	30- 97	MCM27	OWE	18- 64	MXM56	OWE	20- 51	SAX4182	SPY	16- 6
	VAR		M5664	MEC	31- 9	MCM28	OWE	18- 77	MXM57	OWE	19- 91	SAX4183	SPY	16- 20
M2112M	MEC	27- 23	M5670	MEC	23- 86	MCM29	OWE	18- 80	N1024M	EEVB	26- 31	SAX4184	SPY	16- 14
M2201G	MEC	29- 86	M5676	MEC	26- 28	MCM30	OWE	18- 59	N1025M	EEVB	26- 36	SAX4186	SPY	16- 41
M2204B	MEC	22-109	M7864	TOSJ	27-109	MCM31	OWE	18- 58	N1048M	EEVB	26- 77	SAX4187	SPY	16- 44
M2403N	MEC	29- 71	M7880A	TOSJ	28- 1	MCM33	OWE	18- 79	N1059	EEVB	28- 54	SAX4188	SPY	16- 16
M2404H	MEC	29- 21	M7894	TOSJ	31- 6	MCM34	OWE	18- 57	N1062	EEVB	28- 81	SAX4410	SPY	10- 46
M2405G	MEC	30-107	M9220E	MEC	30- 57	MCM36	OWE	18- 71	N1063	EEVB	29- 66	SAX4570	SPY	16- 8
M4436	MEC	24- 51	MA202	MIC	18- 98	MCM37	OWE	18- 81	N1064	EEVB	29-100	SAX4706	SPY	16- 42
M4446	MEC	23- 84	MA204	MIC	21- 53	MCM38	OWE	18- 61	N1074	♦EEVB	26- 46	SAX4707	SPY	16- 25
M4447	MEC	25- 61	MA206	MIC	22- 16	MCM39	OWE	18- 78	NVF41	NERN	10- 60	SAX4708	SPY	16- 23
M4448	MEC	27- 86	MA208	MIC	18- 97	MCM40	OWE	18- 46	NVF51A	NERN	10- 61	SAX5180	SPY	16- 43
M4465	MEC	27- 5	MA209	MIC	21- 65	MCM41	OWE	18- 62	OPX1	MOVB	9- 11	SAX5186	SPY	10- 47
M4502E	TOSJ	22- 61	MA209A	MIC	21- 66	MCM43	OWE	18- 66	JANQK264	none	22- 65	SAX5187	SPY	10- 48
M4505D	TOSJ	20- 95	MA209B	MIC	21- 67	MCV602	THC	19- 49	JANQK381	none	none	SE209	WJC	8-103
M4505G	TOSJ	22- 55	MA213	MIC	21- 8	MCV1129	THC	17- 98	Repl.by JANDOD002 Cur.			SE209A	WJC	9- 13
M4508C	TOSJ	18- 39	MA215	MIC	19-102	MCV1130	THC	18- 14	JANQK427	none	21- 89	SE211A	WJC	8- 65
M4514B	TOSJ	22- 79	MA218	MIC	21- 68	MCV1327	THC	17- 64	JANQK447	none	18- 48	SE211B	WJC	8- 64
M4514C	TOSJ	22- 76	MA219	MIC	19- 37	MCV1480	THC	22- 82	JANQK516	none	none	SE214	WJC	8- 19
M4520B	TOSJ	22- 36	MA219A	MIC	19- 39	MG9T3	♦LMTF	22- 23	Repl.by JAN7547 Cur.			SE214A	WJC	8- 13
M4527D	TOSJ	22- 50	MA219B	MIC	19- 38	MG82T1	♦LMTF	17- 47	JANQK547	none	10- 23	SE215	WJC	8- 26
M4527E	TOSJ	22- 51	MA219C	MIC	19- 40	MKK10	OWE	14- 1	QKH707	NJRC	17- 36	SE215A	WJC	8- 32
M4534	TOSJ	22- 64	MA221	MIC	18-100	MKK11	OWE	15- 18	JANQKK752	none	none	SE216	WJC	9- 33
M4539	TOSJ	17- 23	MA222	MIC	20- 69	MKK14	OWE	13- 60	Repl.by JANDOD001 Cur.			SE217	WJC	8- 58
M4542A	TOSJ	17- 26	MA224	MIC	22- 15	MKK18	OWE	13-109	R6112	EMIB	10-102	SE218	WJC	9- 58
M4542C	TOSJ	17- 24	MA230	MIC	18-101	MKK19	OWE	14- 20	R9501	EMIB	12- 11	SE219A	WJC	8- 21
M4545	TOSJ	22- 37	MA236	MIC	18-102	MKK21	OWE	14- 51	R9516	EMIB	11- 84	SE220	WJC	9- 27
M4546	TOSJ	22- 78	MA256	MIC	21- 98	MKK24	OWE	13- 90	R9538P	EMIB	12- 59	SE221	WJC	8- 53
M4627F	TOSJ	16- 5	MA263	MIC	20- 29	MKK24A	OWE	13- 99	R9539P	EMIB	12- 83	SE223	WJC	8- 4
M4645	TOSJ	12- 32	MA275	MIC	22- 26	MKK28	OWE	13- 91	R9540P	EMIB	12- 96	SE303	WJC	9- 14
M4645B	TOSJ	12- 41	MA276	MIC	21- 96	MKK32	OWE	14- 10	R9541P	EMIB	12-103	SE304	WJC	8- 66
M4802C	TOSJ	27-100	MA606	NJRC	22-106	MKK33	OWE	13- 80	R9542P	EMIB	13- 2	SE307	WJC	9- 37
M4802D	♦TOSJ	28- 25	MA2001	MIC	23- 22	MKK35	OWE	13- 69	R9543P	EMIB	13- 15	SE307A	WJC	9- 34
M4803	TOSJ	23- 25	MA2002	MIC	27-104	MKK36	OWE	13- 78	R9544P	EMIB	13- 29	SE308	WJC	9- 49
M4805A	TOSJ	23-106	MA2002A	MIC	27-105	MXK19	OWE	12- 70	R9547	EMIB	14- 29	SE308A	WJC	9- 50
M4805B	TOSJ	24- 54	MA2006	MIC	23- 31	MXK20	OWE	13- 36	R9556	EMIB	11- 81	SE310	WJC	8- 28
M4830	TOSJ	23- 5	MA2006C	MIC	23- 30	MXK23	OWE	12- 26	R9570	EMIB	15- 99	SE310-3	WJC	8- 43
M4836	TOSJ	23- 2	MA2012	MIC	25- 66	MXK24	OWE	12- 90	R9571	EMIB	15- 98	SE311	WJC	9- 61
M4837	TOSJ	28- 23	MA2026	MIC	23- 29	MXK24A	OWE	12- 91	R9624	EMIB	13- 70	SE312	WJC	9- 64
M5003	EEVB	20- 91	MA2028	MIC	23- 12	MXK25	OWE	12- 93	R9630	EMIB	11- 97	SE313	WJC	9- 18
M5006	EEVB	19- 78	MA2100	MIC	26- 9	MXK26	OWE	13- 10	R9651	EMIB	14- 39	SFD212	VET	9-100
M5007	EEVB	20- 5	MA2301	MIC	25- 9	MXK26B	OWE	12-101	R9653	EMIB	14- 95	SFD216	VET	9-101
M5008	EEVB	22- 80	MA2302	MIC	25- 29	MXK27	OWE	13- 50	R9655	EMIB	11-110	SFD219	VET	9-110
M5009	EEVB	22- 81	MA2303	MIC	27- 48	MXK28	OWE	12- 18	R9704	EMIB	11- 94	SFD229	VET	10- 1
M5010	EEVB	19- 99	MA2304	MIC	30- 26	MXK29	OWE	12- 80	R9719	EMIB	15-102	SFD235	VET	10- 2
M5012	EEVB	20-102	MA2305	MIC	23- 58	MXK30	OWE	12-102	RK6112A	EMIB	10- 32	SFD239	VET	10- 7
M5030	EEVB	17- 97	MA2306	MIC	27- 58	MXK31	OWE	12- 61	RRW010	SIEG	8-102	SFD248	VET	9-104
M5034	EEVB	18- 13	MA2308	MIC	23- 20	MXK34	OWE	13- 19	RRW025	SIEG	9- 62	SFD253	VET	10- 5
M5042	EEVB	20- 50	MA2309	MIC	29- 82	MXK35	OWE	13- 47	RRW040	SIEG	9- 67	SFD255	VET	9-105
M5045	EEVB	20- 99	MA2310	MIC	30- 28	MXK36	OWE	13- 48	RW4	SIEG	26- 55	SFD258	VET	9-109
M5046	EEVB	17- 71	MA2311	MIC	24-103	MXK37	OWE	12- 12	RW45	SIEG	26- 89	SFD301	VET	22- 97
M5047	EEVB	17- 88	MA2314	MIC	23- 53	MXK38	OWE	12- 71	RW48	SIEG	26- 29	SFD313	♦VET	22- 84
M5049	EEVB	18- 10	MA2315	MIC	30- 23	MXK40	OWE	13- 33	RW48C	♦SIEG	26- 41	SFD315	VET	22- 95
JANM5056A	none	30-110	MA2316	MIC	27- 34	MXK41	OWE	12-107	RW61BA	WAR	9-107	SFD320	VET	22- 96
JANM5057A	none	26- 18	MA2318	MIC	23- 64	MXK42	OWE	12-106	RW61BB	WAR	9-106	SFD327	VET	22- 98
JANM5058A	VAR	27- 32	MA2326	MIC	23- 59	MXK43	OWE	12- 76	RW70	SIEG	28- 57	SFD330	VET	22- 99
JANM5059A	VAR	29- 10	MA2327	MIC	25- 10	MXK44	OWE	12- 75	RW85	SIEG	28- 17	JANSFD341	none	none
M5063	♦EEVB	18- 9	MA2328	MIC	27- 49	MXK45	OWE	13- 56	RW86	♦SIEG	28- 32	Repl.by JAN8763 Cur.		
M5082	♦EEVB	22- 40	MA2329	MIC	30- 27	MXK46	OWE	13- 39	RW87	♦SHWG	27-101	SFD360	VET	22- 86
M5095	♦EEVB	22- 25	MA2330	MIC	25- 30	MXK51	OWE	13- 32		SIEG		SMS27	SPY	14-106
M5096	EEVB	19- 43	MA2331	MIC	23- 81	MXK52	OWE	12- 73	RW87C	♦SIEG	27-102	SOC86	SPY	15- 52
M5106	♦EEVB	22- 22	MA2332	MIC	25- 51	MXK53	OWE	15- 2	RW87U	♦SIEG	27-103	SOC87	SPY	15- 51
M5121	MEC	30-100	MA2333	MIC	25- 11	MXK55	OWE	13- 55	RW103A	WAR	24- 7	SOK2921	SPY	15- 31
M5122	MEC	24- 50	MA2334	MIC	23- 76	MXK56	OWE	12-109	RW106A	WAR	23- 65	SOK2922	SPY	15- 29
M5127	MEC	29- 35	MA2335	MIC	27- 62	MXK58	OWE	12- 33	RW107A	WAR	25- 31	SOK2925	SPY	15- 30
M5140	MEC	24- 95	MA2336	MIC	24- 85	MXK60	OWE	13- 1	RW125	WAR	23- 83	SOK2926	SPY	15- 32
M5142	MEC	28- 86	MA2337	MIC	28-108	MXK62	OWE	13- 20	RW126	WAR	25- 53	SOU293	SPY	15- 26
M5144	MEC	29-105	MA2338	MIC	29- 11	MXK63	OWE	12- 30	RW129	WAR	24- 11	SOU403	SPY	15- 25

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Δ-Registered with JEDEC by this manufacturer

Obs-In this book

X 1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
SOU404	SPY	15- 27
SOU408	SPY	15- 23
SOU4040	SPY	15- 22
SOU4090	SPY	13- 82
SOU5080	SPY	13- 73
SOU5230	SPY	15- 28
SOV2200	SPY	15- 36
SOV2201	SPY	15- 38
SOV2203	SPY	14- 62
SOV4130	SPY	15- 33
SOX239	SPY	15- 10
SOX2392	SPY	15- 8
SOX2394	SPY	15- 21
SOX2395	SPY	13- 12
SOX2396	SPY	15- 7
SOX4880	SPY	15- 9
JANSRC64D1	SPY	none
Repl.by JAN8316 Cur.		
SRK4640	SPY	14- 23
SRK4641	SPY	14- 26
SRK4761	SPY	14- 28
SRK4780	SPY	14- 25
SRK4781	SPY	14- 24
SRU266	SPY	13- 92
SRU410	SPY	13- 96
SRU4102	SPY	13- 97
SRU4103	SPY	13- 98
SRU4380	SPY	13- 75
SRU4432	SPY	13-102
SRU4434	SPY	13-105
SRU4435	SPY	13- 94
SRU4438	SPY	13-107
SRU4439	SPY	13- 85
SRU4472	SPY	13- 77
SRU4473	SPY	13- 66
SRU4474	SPY	13- 63
SRU4475	SPY	13- 65
SRU4476	SPY	13- 64
SRU4480	SPY	13-103
SRU4500	SPY	13- 62
SRU4850	SPY	13-104
SRU4940	SPY	13- 57
SRU4941	SPY	13- 71
SRU4942	SPY	13- 72
SRU5110	SPY	13- 95
SRU5240	SPY	13- 88
JANSRV38	none	14- 49
SRV4401	SPY	15- 37
SRV4402	SPY	14- 66
SRV4403	SPY	14- 36
SRV4404	SPY	14- 67
SRV4405	SPY	14- 41
SRV4406	SPY	14- 64
SRV4407	SPY	14- 65
SRV4408	SPY	14- 43
SRV4409	SPY	14- 45
SRV4450	SPY	14- 54
SRV5130	SPY	14- 52
SRV5270	SPY	14- 34
SRX92	SPY	12- 92
SRX4241	SPY	12- 89
SRX4244	SPY	12- 42
SRX4245	SPY	12- 43
SRX4550	SPY	13- 23
SRX4610	SPY	13- 11
SRX4840	SPY	13- 34
SRX4959	SPY	13- 53
SRX5300	SPY	13- 3
SRX53001	SPY	13- 5
STC134	SPY	26-101
STC4820	SPY	26- 59
STL4441	SPY	23- 40
STP234	SPY	23- 6
STP271	SPY	23- 7
STX4630	SPY	28- 84
TH1658A	THC	17- 93
TH1658B	THC	18- 12
TH1725A	THC	20- 96
TH1725C	THC	20- 92
TH1725D	THC	20- 48
TH1725E	THC	21- 36
TH2049	THC	10- 38
TH3044	THC	19- 55
TH3056	THC	17-100
TH3060	THC	17-101
TH9110	THC	25- 93
TH9134	THC	23- 4
TK4/2K50	♦KLY	14- 16
TK59/6845	♦KLY	12- 34
TK62/6116	♦KLY	12- 35
TK69/6584	♦KLY	11- 9
TK75	ALGG	11- 3
TK76△	KLY	12- 53
TK76/6940	♦KLY	12- 36
TK80	KLY	11- 14
TK80/6584	♦KLY	11- 15
TK98	KLY	11- 18
TK106/8460	♦KLY	12- 37
TK108	KLY	11- 13
TK108/6584	♦KLY	11- 16
TK111	KLY	13- 45
TK112	KLY	12- 54
TK113	♦KLY	13- 83
TK115	KLY	12- 25
TK115/6116	♦KLY	12- 38
TK117	KLY	14- 4
TK118	KLY	14- 2
TK119	KLY	14- 3
TK120	KLY	12- 44
TK126/7787	♦KLY	12- 39
TK127-2K25	♦KLY	12- 50
TK753	KLY	12- 9
TL7	ALGG	26- 30
TOP117	THC	28- 70

TYPE No.	MFRS	Pg&Line
TOP1090	THC	26- 88
TOP1091	THC	26- 80
TOP1109	THC	23- 87
TOP1110	THC	25-108
TOP1111	THC	27- 56
TOP1112	THC	28- 61
TOP1223	THC	28- 69
TOP1225	THC	23-100
TOP1266	THC	30- 59
TOP1270	THC	28- 33
TOP1280	♦THC	28- 76
TOP1310	THC	26- 42
TOP1315	THC	25-103
TOP1409	THC	26- 27
TOP1481	THC	25- 64
TOP1482	THC	30-104
TOP1512	THC	23- 78
TOP1513	♦THC	29- 99
TOP1514	♦THC	27- 88
TOP4156	THC	30- 88
TPM1217	THC	9-102
TPM1218	THC	9-108
TPM1236	THC	9-103
TPM1262	THC	9- 96
TPM1263	THC	9- 97
TPM1264	THC	9- 98
TPM1265	THC	9- 99
TPO4130	THC	24- 12
TV3K3000LQ	THC	15- 45
TV4K3SM	THC	15- 96
TV4KM50000LQ	THC	15- 86
TV5K70SH	THC	16- 65
TV94	THC	13-100
TV97	THC	14- 50
TV152C	THC	12- 58
TV154	THC	13- 46
TV203H	THC	12- 81
TV210C	THC	13- 6
TV298	THC	11- 82
TV299	THC	11- 83
TV303	THC	21- 5
TV325	THC	22- 6
TV349	THC	22- 85
TV516	THC	15- 3
TV518	THC	15- 1
TV618G	THC	10- 18
TV626G	THC	10- 17
TV651G	THC	23- 13
TV884A	THC	16- 83
TV884B	♦THC	16- 84
TV893A	THC	15- 67
TV894A	THC	15- 78
TV895A	THC	15- 85
TV1022A	THC	22- 41
TV1022B	THC	22- 42
TV1022C	THC	22- 39
TV1022D	THC	17- 48
TV1024	THC	17- 49
TV1501	THC	18- 45
TV1502	THC	18- 51
TV1510	THC	18- 44
TV1542	THC	17-102
TV1544	THC	22- 83
TV1780A	THC	19- 56
TV2016	THC	10- 34
TV2023	THC	10- 31
TV2102	THC	16- 97
TV2125CB	THC	11- 7
TV2151	THC	16- 58
TV2213A	THC	11-109
TV2213B	THC	11- 86
TV2213C	THC	11- 74
TV2213D	THC	11- 61
TV2213E	THC	11- 37
TV2213F	THC	11- 28
TV2213G	THC	11- 51
TV2219	THC	13- 7
TV2223	THC	12- 95
TV7758	THC	16- 57
TV9140	THC	24- 92
TVC402T1	THC	10- 16
TVL207T1	THC	10- 13
TVS401T1	THC	10- 14
TVX405T2	THC	10- 19
TWC21	MOVB	28- 14
TWC527	MOVB	28- 12
TWC827	MOVB	28- 10
TWS1	MOVB	24- 1
TWS2	MOVB	24- 6
TWS10	MOVB	23-108
TWS15	MOVB	24- 8
TWS23	♦MOVB	25- 56
TWS31	♦MOVB	25- 57
V24F	VAR	16- 91
V53C	VARC	13- 38
V54	VARC	13- 49
V55	VAR	12-108
	VARC	
V58	VAR	12- 68
	VARC	
V231C/1K	ITT	10- 62
	STCB	
V233A/1K	ITT	10- 63
	STCB	
V235A/1K	ITT	10- 64
	STCB	
V237C/1K	ITT	10- 65
	STCB	
V245C/1K	ITT	10- 66
	STCB	
V249C/1K	ITT	10- 68
	STCB	
V261C/1M	ITT	10- 79
	STCB	

TYPE No.	MFRS	Pg&Line
V265A/1M	ITT	10- 69
	STCB	
VA82	VAR	16- 27
VA87	VAR	15- 97
VA92C	VARC	13- 67
VA92K	VAR	13- 76
JANVA94	VAR	none
Repl.by JAN6995 Cur.		
VA98E	VAR	14- 18
	VARC	
VA98G	VARC	14- 17
VA98H	VARC	14- 12
JANVA98M	none	none
Repl.by JAN8901 Cur.		
VA98N	VARC	14- 13
VA98P	VARC	14- 22
VA98R	VARC	14- 27
VA126	VAR	22-108
VA134B	VAR	23- 8
VA141A	VAR	23- 23
VA145	VAR	10- 22
VA145A	VAR	10- 20
VA145C	VAR	10- 21
VA161G	THC	9- 15
VA161K	THC	9- 16
VA162	VAR	9- 46
VA183M	VAR	8- 14
VA186M	VAR	8- 18
VA188M	VAR	8- 89
VA201L	VAR	12- 23
VA210K	VAR	13- 13
VA215L	VAR	12- 10
JANVA222A	none	none
Repl.by JAN8849 Cur.		
VA222B	VAR	none
Repl.by 8821 Cur.		
JANVA222B	VAR	none
Repl.by JAN8821 Cur.		
JANVA236	none	11- 20
VA239	VAR	14- 61
VA240J	VAR	13-108
VA242A	VARC	12- 15
VA242B	VARC	12- 20
VA242C	VARC	12- 31
VA242D	VARC	12- 60
VA242E	VARC	12- 84
VA242F	VARC	12- 97
VA242G	VARC	12-104
VA242H	VARC	12-110
VA242J	VARC	13- 9
VA242L	VARC	13- 24
VA242M	VARC	13- 30
VA242N	VARC	13- 35
VA242V	VARC	13- 18
VA250A	VARC	none
Repl.by VRE2103A1 Cur.		
VA250B	VARC	none
Repl.by VRE2103A2 Cur.		
VA250C	VARC	none
Repl.by VRE2103A3 Cur.		
VA250D	VARC	none
Repl.by VRE2103A4 Cur.		
VA250E	VARC	none
Repl.by VRE2103A5 Cur.		
VA250F	VARC	none
Repl.by VRE2103A6 Cur.		
VA254	VAR	14- 7
JANVA262MXK48		none
	none	
Repl.by JAN8848 Cur.		
VA266B	VAR	13- 8
VA266D	VAR	13- 41
VA266E	VAR	13- 31
VA275H	VAR	13- 93
VA281	VAR	13- 61
VA284	VAR	14- 44
VA286A	VAR	13- 68
VA286T	VAR	13- 84
VA288F	VAR	13- 14
VA288G	VAR	13- 4
VA317A	VAR	13- 42
VA320	VAR	13- 21
VA401	VARC	15- 64
VA411	VAR	15- 62
VA411A	VAR	15- 60
VA412A	VAR	15- 54
VA417C	VAR	10-107
VA443M	VAR	8- 88
VA504C	VAR	15- 12
VA504D	VAR	15- 20
VA508W	VAR	14-109
VA511	VAR	15- 11
VA514K	VAR	14-108
VA515A	VAR	15- 15
VA524	VAR	14-110
VA525	VAR	15- 4
VA526	VAR	15- 5
VA527	VAR	15- 6
VA538	VAR	15- 35
VA540	VAR	15- 24
VA541	VAR	15- 34
VA604C	VARC	none
Repl.by VTJ2607A1 Cur.		
VA636D	VAR	26- 97
VA644A	VAR	23- 37
VA666	VAR	27-110
VA800C	VAR	15- 94
VA804B	VARC	none
Repl.by VKC2403A2 Cur.		
VA804C	VARC	none
Repl.by VKC2403A3 Cur.		
VA804D	VARC	none
Repl.by VKC2403A4 Cur.		

TYPE No.	MFRS	Pg&Line
VA804E	VARC	none
Repl.by VKC2403A5 Cur.		
VA804F	VARC	none
Repl.by VKC2403A6 Cur.		
VA804G	VARC	none
Repl.by VKC2403A7 Cur.		
VA804H	VARC	none
Repl.by VKC2403A8 Cur.		
VA804J	VARC	none
Repl.by VKC2403A9 Cur.		
VA804K	VARC	none
Repl.by VKC2403A10 Cur.		
VA805	VAR	16- 1
VA806	VAR	16- 15
VA812	VAR	16- 48
VA822	VAR	16- 35
	VARC	
VA822A	VAR	16- 24
	VARC	
VA822B	VAR	16- 26
	VARC	
VA822C	VAR	16- 28
	VARC	
VA822D	VAR	16- 29
	VARC	
VA822E	VAR	16- 33
	VARC	
VA822F	VAR	16- 38
	VARC	
VA822G	VAR	16- 40
	VARC	
VA822H	VAR	16- 45
	VARC	
VA822J	VAR	16- 46
	VARC	
VA823	VAR	16- 22
	VARC	
VA824B	VARC	none
Repl.by VKX2402A1 Cur.		
VA830A	VAR	16- 7
VA830B	VAR	16- 18
VA834	VAR	15-104
VA834B	VAR	15-103
	VARC	
VA846A	VARC	none
Repl.by VKC2404A1 Cur.		
VA846B	VARC	none
Repl.by VKC2404A2 Cur.		
VA846C	VARC	none
Repl.by VKC2404A3 Cur.		
VA846D	VARC	none
Repl.by VKC2404A4 Cur.		
VA846E	VARC	none
Repl.by VKC2404A5 Cur.		
VA846F	VARC	none
Repl.by VKC2404A6 Cur.		
VA846G	VARC	none
Repl.by VKC2404A7 Cur.		
VA846H	VARC	none
Repl.by VKC2404A8 Cur.		
VA846J	VARC	none
Repl.by VKC2404A9 Cur.		
VA846K	VARC	none
Repl.by VKC2404A10 Cur.		
VA846L	VARC	none
Repl.by VKC2404A11 Cur.		
VA848	VAR	16- 34
VA849	VAR	16- 11
VA849H	VAR	16- 19
VA849J	VAR	16- 17
VA849K	VAR	16- 21
VA851	VAR	16- 37
VA854	VAR	16- 31
VA856	VAR	16- 9
VA858	VAR	15- 93
VA859A	VAR	16- 61
VA863	VAR	16- 10
	VARC	
VA864	VAR	16- 92
VA867	VAR	16- 3
VA869	VAR	16- 32
VA872	VAR	16- 30
VA873	VAR	16- 13
VA874	VAR	16- 90
VA877	VAR	15-106
VA881	VAR	16- 88
VA882	VAR	16- 47
VA885	VAR	16- 87
VA897A	VAR	15- 91
VA908D	VAR	16- 77
VA910	VAR	15-110
VA911A	VAR	16- 39
VA912	VAR	15- 53
VA917A	VAR	15- 90
VA919A	VAR	16- 73
VA928	VAR	16- 98
VA936	VAR	16- 2
VA936C	VAR	16- 79
VA936D	VAR	16- 59
VA946C	♦VAR	16- 49
VA949	VAR	16- 89
VA953A	VAR	16- 51
VA954A	VAR	16- 53
VA955A	VAR	16- 55
VA960A	VAR	16- 86
VA962	VAR	16-100
VA981	VAR	16- 93
VAC103T1	VAR	27- 39
VAC103T2	VAR	27- 11
VAC103T3	VAR	28- 3
VAC402P1	VAR	27- 40
VAC402T1	VAR	27- 41
VAC414P1	VAR	27- 42
VAC414P2	VAR	27- 15

TYPE No.	MFRS	Pg&Line
VAC801T1	VAR	27- 20
VAC801T9	VAR	26-105
VAL201P2	VAR	23- 32
VAL201T1	VAR	23- 19
VAL201T2	VAR	23- 33
VAL807T1	VAR	23- 49
VAL817T6	VAR	23- 50
VAS101T1	VAR	24- 97
VAS101T2	VAR	25- 99
VAS101T3	VAR	26- 12
VAS101T4	VAR	24- 58
VAS101T5	VAR	24- 98
VAS101T6	VAR	26- 21
VAS102T1	VAR	26- 13
VAS401P2	VAR	24- 61
VAS401P3	VAR	24- 78
VAS401T2	VAR	24- 62
VAS401T3	VAR	24- 79
VAS413P1	VAR	24-104
VAS413P2	VAR	24- 77
VAS805T5	VAR	24- 93
VAS805T10	VAR	24- 90
VAS812T4	VAR	24- 75
VAU404P1	VAR	30- 72
VAU404T1	VAR	30- 73
VAX104T1	VAR	28- 95
VAX104T2	VAR	28- 60
VAX104T3	VAR	29-107
VAX104T4	VAR	29- 33
VAX104T5	VAR	29- 34
VAX403P3	VAR	28- 49
VAX403P5	VAR	29- 36
VAX403P6	VAR	29- 78
VAX403T3	VAR	28- 50
VAX403T5	VAR	29- 37
VAX403T6	VAR	29- 79
VAX415P1	VAR	29-108
VAX415P2	VAR	29- 38
VAX415P3	VAR	28- 96
VAX415P4	VAR	30- 10
VAX803T1	VAR	29- 54
VAX811T1	VAR	28- 88
VC104A	VARC	none
Repl.by VRE2102A1 Cur.		
VC104B	VARC	none
Repl.by VRE2102A2 Cur.		
VC104C	VARC	none
Repl.by VRE2102A3 Cur.		
VC104D	VARC	none
Repl.by VRE2102A4 Cur.		
VC104E	VARC	none
Repl.by VRE2102A5 Cur.		
VC104F	VARC	none
Repl.by VRE2102A6 Cur.		
VC104G	VARC	none
Repl.by VRE2102A7 Cur.		
VC104H	VARC	none
Repl.by VRE2102A8 Cur.		
VC104J	VARC	none
Repl.by VRE2102A9 Cur.		
VC104K	VARC	none
Repl.by VRE2102A10 Cur.		
VC104L	VARC	none
Repl.by VRE2102A11 Cur.		
VC104M	VARC	none
Repl.by VRE2102A12 Cur.		
VC104N	VARC	none
Repl.by VRE2102A13 Cur.		
VC104P	VARC	none
Repl.by VRE2102A14 Cur.		
VC104Q	VARC	none
Repl.by VRE2102A15 Cur.		
VC104R	VARC	none
Repl.by VRE2102A16 Cur.		
VC611A	VARC	none
Repl.by VTS2600A1 Cur.		
VC612A	VARC	none
Repl.by VTS2600A2 Cur.		
VC701	VARC	none
Repl.by VMS2800 Obs.		
VC701A	VARC	none
Repl.by VMS2800A1 Obs.		
VC701B	VARC	none
Repl.by VMS2800A2 Obs.		
VC701C	VARC	none
Repl.by VMS2800A3 Obs.		
VC701D	VARC	none
Repl.by VMS2800A4 Obs.		
VC701E	VARC	none
Repl.by VMS2800A5 Obs.		
VC703A	VARC	13- 22
VC704A-L	VARC	15-109
VC705	VARC	none
Repl.by VRE2103B Obs.		
VC705A	VARC	none
Repl.by VRE2103B1 Cur.		
VC705B	VARC	none
Repl.by VRE2103B2 Cur.		
VC705C	VARC	none
Repl.by VRE2103B3 Cur.		
VC705D	VARC	none
Repl.by VRE2103B4 Cur.		
VC705E	VARC	none
Repl.by VRE2103B5 Cur.		
VC705F	VARC	none
Repl.by VRE2103B6 Cur.		
VC706A	VARC	15- 19
VC707A	VARC	none
Repl.by VTG2605A1 Cur.		
VC707E	VARC	26- 56
VC707F	VARC	none
Repl.by VTG2605C4 Cur.		
VC710A	VARC	none
Repl.by VRB2113A1 Cur.		

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

△-Registered with JEDEC by this manufacturer

X 1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
VC710B	VARC	none
Repl.by VRB2113A2 Cur.		
VC710C	VARC	none
Repl.by VRB2113A3 Cur.		
VC710D	VARC	none
Repl.by VRB2113A4 Cur.		
VC710E	VARC	none
Repl.by VRB2113A5 Cur.		
VC711	VARC	27-106
VC711A	VARC	none
Repl.by VTJ2618A1 Cur.		
VC712A	VARC	13-101
VC713A	VARC	none
Repl.by VRB2112A1 Cur.		
VC713B	VARC	none
Repl.by VRB2112A2 Cur.		
VC713C	VARC	none
Repl.by VRB2112A3 Cur.		
VC713D	VARC	none
Repl.by VRB2112A4 Cur.		
VC713E	VARC	none
Repl.by VRB2112A5 Cur.		
VC713F	VARC	none
Repl.by VRB2112A6 Cur.		
VC713G	VARC	none
Repl.by VRB2112A7 Cur.		
VC713H	VARC	none
Repl.by VRB2112A8 Cur.		
VC713J	VARC	none
Repl.by VRB2112A9 Cur.		
VC713K	VARC	none
Repl.by VRB2112A10 Cur.		
VC713L	VARC	none
Repl.by VRB2112A11 Cur.		
VC713M	VARC	none
Repl.by VRB2112A12 Cur.		
VC713N	VARC	none
Repl.by VRB2112A13 Cur.		
VC713P	VARC	none
Repl.by VRB2112A14 Cur.		
VC713R	VARC	none
Repl.by VRB2112A15 Cur.		
VC714A	VARC	none
Repl.by VRT2123A1 Cur.		
VC714B	VARC	none
Repl.by VRT2123A2 Cur.		
VC714C	VARC	none
Repl.by VRT2123A3 Cur.		
VC714D	VARC	none
Repl.by VRT2123A4 Cur.		
VC714E	VARC	none
Repl.by VRT2124A1 Cur.		
VC714F	VARC	none
Repl.by VRT2124A2 Cur.		
VC714G	VARC	none
Repl.by VRT2124A3 Cur.		
VC714H	VARC	none
Repl.by VRT2124A4 Cur.		
VC715A	VARC	none
Repl.by VRT2121A1 Cur.		
VC715B	VARC	none
Repl.by VRT2121A2 Cur.		
VC715C	VARC	none
Repl.by VRT2121A3 Cur.		
VC715D	VARC	none
Repl.by VRT2121A4 Cur.		
VC715E	VARC	none
Repl.by VRT2121A5 Cur.		
VC715F	VARC	none
Repl.by VRT2121A6 Cur.		
VC715G	VARC	none
Repl.by VRT2121A7 Cur.		
VC715H	VARC	none
Repl.by VRT2121A8 Cur.		
VC715J	VARC	none
Repl.by VRT2121A9 Cur.		
VC715K	VARC	none
Repl.by VRT2121A10 Cur.		
VC715L	VARC	none
Repl.by VRT2121A11 Cur.		
VC715M	VARC	none
Repl.by VRT2121A12 Cur.		
VC715N	VARC	none
Repl.by VRT2121A13 Cur.		
VC715P	VARC	none
Repl.by VRT2121A14 Cur.		
VC715R	VARC	none
Repl.by VRT2121A15 Cur.		
VC715S	VARC	none
Repl.by VRT2121A16 Cur.		
VC717A	VARC	none
Repl.by VRT2122A1 Cur.		
VC717B	VARC	none
Repl.by VRT2122A2 Cur.		
VC717C	VARC	none
Repl.by VRT2122A3 Cur.		
VC717D	VARC	none
Repl.by VRT2122A4 Cur.		
VC717E	VARC	none
Repl.by VRT2122A5 Cur.		
VC717F	VARC	none
Repl.by VRT2122A6 Cur.		
VC717G	VARC	none
Repl.by VRT2122A7 Cur.		
VC717H	VARC	none
Repl.by VRT2122A8 Cur.		
VC717J	VARC	none
Repl.by VRT2122A9 Cur.		
VC717K	VARC	none
Repl.by VRT2122A10 Cur.		
VC717L	VARC	none
Repl.by VRT2122A11 Cur.		
VC717M	VARC	none
Repl.by VRT2122A12 Cur.		
VC717N	VARC	none
Repl.by VRT2122A13 Cur.		
VC717P	VARC	none
Repl.by VRT2122A14 Cur.		
VC717R	VARC	none
Repl.by VRT2122A15 Cur.		
VC719A	VARC	none
Repl.by VTJ2608A1 Cur.		
VC720A	VARC	none
Repl.by VRE2105A1 Cur.		
VC720B	VARC	none
Repl.by VRE2105A2 Cur.		
VC720C	VARC	none
Repl.by VRE2105A3 Cur.		
VC720D	VARC	none
Repl.by VRE2105A4 Cur.		
VC720E	VARC	none
Repl.by VRE2105A5 Cur.		
VC720F	VARC	none
Repl.by VRE2105A6 Cur.		
VC720G	VARC	none
Repl.by VRE2105A7 Cur.		
VC722B	VARC	12-105
VC722C	VARC	12- 22
VC722D	VARC	12- 19
VC722E	VARC	12- 21
VC723A	VARC	23- 16
VC724A	VARC	23-110
VC725A	VARC	none
Repl.by VTS2603A1 Cur.		
VC726A	VARC	24- 59
VC727A	VARC	26- 43
VC728A	VARC	26- 44
VC729A	VARC	26- 32
VC730A	VARC	28- 15
VC731A	VARC	28- 59
VC732A	VARC	28- 90
VC733A	VARC	30- 46
VC734A	VARC	none
Repl.by VTX2622A1 Cur.		
VC735A	VARC	none
Repl.by VRB2113B1 Cur.		
VC735B	VARC	none
Repl.by VRB2113B2 Cur.		
VC735C	VARC	none
Repl.by VRB2113B3 Cur.		
VC735D	VARC	none
Repl.by VRB2113B4 Cur.		
VC735E	VARC	none
Repl.by VRB2113B5 Cur.		
VC736A	VARC	none
Repl.by VRT2123B1 Cur.		
VC736B	VARC	none
Repl.by VRT2123B2 Cur.		
VC736C	VARC	none
Repl.by VRT2123B3 Cur.		
VC736D	VARC	none
Repl.by VRT2123B4 Cur.		
VC736E	VARC	none
Repl.by VRT2124B1 Cur.		
VC736F	VARC	none
Repl.by VRT2124B2 Cur.		
VC736G	VARC	none
Repl.by VRT2124B3 Cur.		
VC736H	VARC	none
Repl.by VRT2124B4 Cur.		
VC737A	VARC	none
Repl.by VRT2122B1 Cur.		
VC737B	VARC	none
Repl.by VRT2122B2 Cur.		
VC737C	VARC	none
Repl.by VRT2122B3 Cur.		
VC737D	VARC	none
Repl.by VRT2122B4 Cur.		
VC737E	VARC	none
Repl.by VRT2122B5 Cur.		
VC737F	VARC	none
Repl.by VRT2122B6 Cur.		
VC737G	VARC	none
Repl.by VRT2122B7 Cur.		
VC737H	VARC	none
Repl.by VRT2122B8 Cur.		
VC737J	VARC	none
Repl.by VRT2122B9 Cur.		
VC737K	VARC	none
Repl.by VRT2122B10 Cur.		
VC737L	VARC	none
Repl.by VRT2122B11 Cur.		
VC737M	VARC	none
Repl.by VRT2122B12 Cur.		
VC737N	VARC	none
Repl.by VRT2122B13 Cur.		
VC737P	VARC	none
Repl.by VRT2122B14 Cur.		
VC737R	VARC	none
Repl.by VRT2122B15 Cur.		
VC738	VARC	none
Repl.by VRY2131A Cur.		
VC739	VARC	none
Repl.by VTP2620A1 Cur.		
VC739A	VARC	23- 24
VC740A	VARC	30- 43
VC741A	VARC	none
Repl.by VTS2604A1 Cur.		
VC742A	VARC	none
Repl.by VRB2115A1 Cur.		
VC742B	VARC	none
Repl.by VRB2115A2 Cur.		
VC742C	VARC	none
Repl.by VRB2115A3 Cur.		
VC742D	VARC	none
Repl.by VRB2115A4 Cur.		
VC742E	VARC	none
Repl.by VRB2115A5 Cur.		
VC743A	VARC	none
Repl.by VRT2125A1 Cur.		
VC743B	VARC	none
Repl.by VRT2125A2 Cur.		
VC743C	VARC	none
Repl.by VRT2125A3 Cur.		
VC743D	VARC	none
Repl.by VRT2125A4 Cur.		
VC745A	VARC	28- 8
VC747A	VARC	none
Repl.by VTC2606A1 Obs.		
VC750	VARC	none
Repl.by VRB2114A1 Obs.		
VC753A	VARC	none
Repl.by VTH2610A1 Cur.		
VC754A	VARC	none
Repl.by VTH2610A2 Cur.		
VC755A	VARC	none
Repl.by VTJ2609A1 Cur.		
VC757	VARC	none
Repl.by VTS2602A1 Cur.		
VC759	VARC	none
Repl.by VRE2101A Cur.		
VC763	VARC	none
Repl.by VRB2111A Cur.		
VC764	VARC	none
Repl.by VRE2104A Obs.		
VC765	VARC	none
Repl.by VTH2601A1 Cur.		
VC767	VARC	none
Repl.by VTX2617A1 Obs.		
VC768	VARC	none
Repl.by VTX2612A1 Cur.		
VC769	VARC	none
Repl.by VTX2612B1 Cur.		
VC770	VARC	none
Repl.by VTJ2609A4 Cur.		
VC771	VARC	none
Repl.by VTM2613A1 Cur.		
VC772	VARC	none
Repl.by VTM2616A1 Cur.		
VC773	VARC	none
Repl.by VTM2615A1 Cur.		
VC774	VARC	none
Repl.by VTU2614A1 Cur.		
VC775	VARC	none
Repl.by VTP2621A1 Cur.		
VC776	VARC	none
Repl.by VTS2603B2 Cur.		
VC777	VARC	none
Repl.by VTS2602B2 Cur.		
VC778	VARC	none
Repl.by VTP2619A1 Cur.		
VC779	VARC	24- 60
VC780	VARC	none
Repl.by VTJ2623A1 Cur.		
VC781	VARC	26- 40
VC782	VARC	30- 50
VKC7754	VAR	15-107
VKC7762	VAR	16- 99
VKE2406A1	VARC	10- 52
VKE2408A1	VARC	10- 55
VKE2408A	♦VARC	10- 53
VKE2409A1	VARC	10- 54
VKE2409B	♦VARC	10- 51
VKQ2417A	♦VARC	14- 71
VKQ2417B	♦VARC	14- 72
VKQ2417C	♦VARC	14- 70
VKX7765	VAR	16- 36
VMS2800	VARC	22- 71
VMS2800A1	VARC	17- 69
VMS2800A2	VARC	17- 73
VMS2800A3	VARC	17- 81
VMS2800A4	VARC	17- 86
VMS2800A5	VARC	17- 92
VMS2807A1	VARC	17-103
VRB2114A1	VARC	14-100
VRE2103B	VARC	14- 87
VRE2104A	VARC	14- 84
VTA6600A1	VAR	31- 7
VTC2606A1	VARC	26- 93
VTC4210A1	VAR	27- 50
VTC4210A2	VAR	27- 27
VTC4210A3	VAR	27- 28
VTC4210A4	VAR	26-106
VTC4210A5	VAR	27- 3
VTC4210A6	VAR	27- 51
VTC4210A7	VAR	27- 18
VTC4210P1	VAR	27- 52
VTC4210P2	VAR	27- 29
VTC4210P3	VAR	27- 30
VTC4210P4	VAR	26-107
VTC4210P5	VAR	23- 3
VTC4210P6	VAR	27- 53
VTC4210P7	VAR	27- 19
VTC4225P1	VAR	27- 24
VTC4402A1	VAR	27- 43
VTC4402A2	VAR	27- 31
VTC4402A3	VAR	26- 84
VTC4402A4	VAR	27- 16
VTC4402A5	VAR	28- 4
VTC4402A6	VAR	28- 5
VTC4402P3	VAR	26- 83
VTC4402P4	VAR	27- 17
VTC4402P5	VAR	28- 6
VTC4402P6	VAR	28- 7
VTC4410P1	VAR	26- 82
VTC4411P1	VAR	28- 11
VTC4414P4	VAR	28- 16
VTC5070A1	VAR	27- 90
VTC6059F2	VAR	27- 72
VTC6068H1	VAR	27- 63
VTC6068H3	VAR	27- 74
VTG6220A1	VAR	26- 49
VTH6078H1	VAR	28- 66
VTL4201P1	VAR	23- 34
VTL4214P1	VAR	23-103
VTL4901P1	VAR	23- 35
VTL5340H1	VAR	23- 48
VTP5330A1	VAR	23- 9
VTS4224P1	VAR	25- 21
VTS4401A1	VAR	25- 12
VTS4401A2	VAR	24- 80
VTS4401A3	VAR	24- 81
VTS4401P1	VAR	25- 13
VTS4401P2	VAR	24- 82
VTS4401P3	VAR	24- 83
VTS4409P1	VAR	25-104
VTS4413P4	VAR	24- 94
VTS5151A1	VAR	25- 85
VTS5153A1	VAR	26- 4
VTS5252C1	♦VAR	26- 11
VTS6058H1	VAR	25- 32
VTS6350A1	VAR	25- 91
VTU4404A1	VAR	30- 74
VTU4404A2	VAR	30- 80
VTU4404P1	VAR	30- 75
VTU4404P2	VAR	30- 81
VTU6290A1	VAR	30-103
VTX2617A1	VARC	30- 21
VTX4204A1	VAR	29- 4
VTX4204A2	VAR	28-109
VTX4204A3	VAR	30- 7
VTX4204A4	VAR	29- 39
VTX4204P1	VAR	29- 5
VTX4204P2	VAR	28-110
VTX4204P3	VAR	30- 8
VTX4204P4	VAR	29- 40
VTX4204P5	VAR	29- 1
VTX4218P1	VAR	29- 6
VTX4218P2	VAR	29- 45
VTX4218P3	VAR	29- 7
VTX4226P1	VAR	22-110
VTX4403A1	VAR	28- 97
VTX4403A2	VAR	28- 51
VTX4403A3	VAR	28-100
VTX4403A4	VAR	28- 62
VTX4403A5	VAR	29- 41
VTX4403A6	VAR	29- 80
VTX4403P1	VAR	28- 98
VTX4403P2	VAR	28- 52
VTX4403P3	VAR	28-101
VTX4403P4	VAR	29- 81
VTX4403P5	VAR	29- 42
VTX4405A1	VAR	29-109
VTX4405A2	VAR	30- 4
VTX4405A3	VAR	29- 43
VTX4405A4	VAR	29- 62
VTX4405P1	VAR	29-110
VTX4405P2	VAR	30- 5
VTX4405P3	VAR	29- 44
VTX4405P4	VAR	29- 63
VTX5380A1	VAR	29- 51
VTX5381A1	VAR	29- 55
VTX6088H1	VAR	30- 17
VTX6088H5	VAR	29- 22
VTX6181A1	VAR	30- 38
VTX6280A1	VAR	30- 34
VTX6280H1	VAR	30- 35
W4/1G	ITT	28- 36
W7/1D	ITT	26- 78
	STCB	
W9/1E	ITT	26- 10
	STCB	
W10MT-7A	ITT	25- 14
	♦STCB	
W46D/1G	ITT	23- 10
	STCB	
W46D/1T	ITT	23- 11
W421B	NJRC	9- 4
W421C	NJRC	8- 99
WJ231-4	WJC	28- 46
WJ231-5	WJC	28- 18
WJ251-2	WJC	28- 42
WJ268-2	WJC	23- 89
WJ268-20	WJC	23- 52
WJ268-24	WJC	23- 98
WJ269-1	WJC	26- 19
WJ274-1	WJC	24- 23
WJ274-2	WJC	24- 41
WJ274-6	♦WJC	24- 45
WJ274-8	WJC	24- 42
WJ274-9#1	♦WJC	24- 13
WJ274-9#2	♦WJC	24- 14
WJ274-10	♦WJC	24- 27
WJ274-11	♦WJC	24- 29
WJ274-12#1	♦WJC	24- 28
WJ274-12#2	♦WJC	24- 30
WJ278-9	WJC	23- 14
WJ284-5	WJC	28- 30
WJ293	WJC	23- 17
WJ294-2	WJC	23- 92
WJ295-2	WJC	26- 20
WJ295-3	WJC	25- 15
WJ295-34	WJC	24- 96
WJ296-2	WJC	27- 26
WJ297-5	WJC	30- 3
WJ307-5	WJC	30- 79
WJ307-15	WJC	30- 86
WJ338-5	WJC	31- 14
WJ338-6	WJC	31- 8
WJ345-1	WJC	29-104
WJ345-2	WJC	29- 32
WJ345-7	WJC	28- 85
WJ345-8	WJC	28- 89
WJ349	WJC	26-110
WJ349-2	WJC	26- 99
WJ349-3	WJC	27- 14
WJ350	WJC	30- 53
WJ350-1	WJC	30- 37
WJ355-1	WJC	24- 16
WJ362	WJC	26- 79
WJ363-3	WJC	29- 9
WJ363-4	WJC	30- 40
WJ368	WJC	24- 89
WJ368-1	WJC	24- 88
WJ368-3	WJC	25- 63
WJ369	WJC	26-103
WJ369-1	WJC	26-102
WJ369-3	WJC	26-104
WJ370-3	WJC	23- 97
WJ374-1	WJC	23- 99
WJ375-1	WJC	24- 76
WJ375-2	WJC	24- 99
WJ375-7	WJC	24- 15
WJ381-6	WJC	26- 51
WJ381-11	WJC	26- 50
WJ384	WJC	30- 11
WJ391	WJC	29- 23
WJ391-1	WJC	28- 53
WJ391-2	WJC	28- 79
WJ393-4	WJC	31- 3
WJ393-6	WJC	31- 5
WJ393-8	WJC	31- 2
WJ395-1	WJC	24- 25
WJ395-3	WJC	24- 31
WJ397	WJC	23- 42
WJ398-1	WJC	24- 39
WJ399	WJC	30- 14
WJ399-2	WJC	30- 15
WJ403	WJC	30- 12
WJ404	WJC	23- 18
WJ424-16	WJC	30- 13
WJ436-1	WJC	26- 96
WJ438-1	WJC	30-105
WJ439	WJC	26- 52
WJ440	WJC	28- 34
WJ440-4	♦WJC	27-107
WJ442	WJC	24- 49
WJ445-1	WJC	24- 5
WJ446	WJC	30- 76
WJ448-1	WJC	24- 24
WJ448-2	WJC	24- 21
WJ449	WJC	31- 18
WJ451	WJC	25- 16
WJ452	WJC	27- 54
WJ453	WJC	30- 9
WJ454	WJC	30- 94
WJ455	WJC	26- 35
WJ465	WJC	30- 95
WJ467	WJC	31- 13
WJ469-1	WJC	29- 16
WJ474	WJC	28- 40
WJ492-1	♦WJC	29- 18
WJ492-2	♦WJC	30- 29
WJ1176#1	♦WJC	24- 33
WJ1176#2	♦WJC	24- 40
WJ1181-1	♦WJC	23- 69
WJ1181-2	♦WJC	25- 33
WJ1181-3	♦WJC	25- 44
WJ1181-4	♦WJC	27- 64
WJ1181-5	♦WJC	27- 75
WJ1181-6	♦WJC	27- 84
WJ1181-7	♦WJC	29- 94
WJ1181-8	♦WJC	29- 19
WJ1181-9	♦WJC	30- 30
WJ1181-10	♦WJC	30- 31
WJ1181-11	♦WJC	30- 63
WJ1181-12	♦WJC	30- 98
WJ1181-13	♦WJC	30- 99
WJ1181-14	♦WJC	28- 55
WJ1181-15	♦WJC	28- 56
WJ1185	♦WJC	24- 43
WJ2001	WJC	8-105
WJ2001-1	WJC	8-100
WJ2003	WJC	9- 41
WJ2004	WJC	9- 20
WJ2005	WJC	8- 72
WJ2006	WJC	9- 6
WJ2006-4	WJC	8- 96
WJ2007	WJC	9- 42
WJ2008	WJC	9- 12
WJ2008-2	WJC	9- 9
WJ2014-1	WJC	8- 38
WJ2015	WJC	8- 73
WJ2017	WJC	9- 1
WJ2018	WJC	8- 31
WJ2019	WJC	8- 70
WJ2020	WJC	9- 7
WJ2021	WJC	9- 43
WJ2022	WJC	9- 59
WJ2024	WJC	8- 29
WJ2025	WJC	8- 67
WJ2026	WJC	9- 17
WJ2027	WJC	9- 8
WJ2028	WJC	9- 38
WJ2029	WJC	9- 51
WJ2030	WJC	8- 74
WJ2031-2	WJC	8- 37
WJ2032	♦WJC	8- 46
WJ2032-2	WJC	8- 45
WJ2033-1	WJC	9- 2
WJ2033-2	WJC	8- 95
WJ2034	WJC	8- 76
WJ2038	WJC	8- 44
WJ2039	WJC	9- 10
WJ2039-1	WJC	8-107
WJ2040	WJC	8- 39
WJ2040-2	WJC	8- 30
WJ2041	WJC	9- 65
WJ2042	WJC	8- 97
WJ2043	WJC	9- 44

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

Δ-Registered with JEDEC by this manufacturer

X 1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
WJ2044	♦WJC	8- 83
WJ2045	♦WJC	8- 78
WJ2047	WJC	8- 75
WJ2050	♦WJC	8- 71
WJ2051	♦WJC	8- 27
WJ2052	WJC	9- 39
WJ2056	♦WJC	9- 45
WJ2057	♦WJC	9- 60
WJ2058	♦WJC	9- 66
WJ2065	♦WJC	9- 32
WJ2067	♦WJC	9- 24
WJ2068	♦WJC	9- 29
WJ2069	♦WJC	9- 28
WJ2500	♦WJC	23- 70
WJ2500-1	♦WJC	23- 71
WJ2500-2	♦WJC	23- 72
WJ2501	♦WJC	25- 34
WJ2501-1	♦WJC	25- 35
WJ2501-2	♦WJC	25- 36
WJ2502	♦WJC	27- 65
WJ2502-1	♦WJC	27- 66
WJ2503	♦WJC	29- 95
WJ2503-1	♦WJC	29- 96
WJ2504	♦WJC	30- 60
WJ2510	♦WJC	23- 73
WJ2511	♦WJC	25- 37
WJ2512	♦WJC	27- 67
WJ2513	♦WJC	29- 97
WJ2514	♦WJC	30- 61
WJ3805-1	♦WJC	30- 32
X26F	VAR	11- 19
X282	ITT	27- 82
X1056A	VAR	30- 22
X1084	VAR	16-105
X1095	VAR	11- 46
X1102	VAR	27- 10
X1131	VAR	28- 43
X1132	VAR	31- 20
X1133	VAR	31- 17
X1134	VAR	31- 19
X1207	VAR	26- 57
X3029	VAR	16- 96
X3034	VAR	23-102
X3039	VAR	16- 95
X3065	VAR	16- 62
X3065A	VAR	16- 63
YH1030	APX MULB	28- 13
YH1042	SIEG	27-108
YH1060	♦MULB	29- 74
YH1060/LA9-2	MULB	29- 75
YH1080	APX MULB	28- 71
YH1080/LB8-20	MULB	28- 72
YH1130	ALGG	28- 37
YH1180	ALGG	26- 98
YJ1000	APX MULB	20- 18
YJ1000/JP9-2.5B	♦MULB	19-109
YJ1010	♦MULB	19- 58
YJ1011	MULB	19- 59
YJ1020	MULB	22- 13
YJ1021	MULB	22- 14
YJ1030	♦MULB	18- 53
YJ1040	♦MULB	20- 75
YJ1050	♦MULB	20- 86
YJ1070	MULB	19- 19
YJ1090	♦MULB	20- 12
YJ1091	♦MULB	19- 7
YJ1100	♦MULB	20- 15
YJ1101	MULB	19- 8
YJ1111	MULB	21- 42
YJ1112	MULB	20- 84
YJ1113	MULB	21- 25
YJ1123	♦MULB	21- 37
YJ1124	♦MULB	21- 71
YJ1140	MULB	21-105
YJ1160-JP2-2.5W	♦MULB	22- 67
YJ1162-JP2-2.5A	♦MULB	17- 62
YJ1180	♦MULB	19- 75
YJ1180/JPS9-200	♦MULB	19- 76
YJ1181	♦MULB	19- 77
YJ1182	MULB	20-110
YJ1190	APX	22- 68
YJ1201	♦MULB	20-100
YJ1220	MULB	22- 89
YJ1260	MULB	17- 55
YJ1261	MULB	17- 56
YJ1290	MULB	21- 44
YJ1310	MULB	17- 33
YJ1320	MULB	21-108
YJ1320/JPS16-60	MULB	21-109
YJ1321	MULB	21-110
YJ1370	MULB	17- 41
YJ1371	MULB	17- 42
YJ1380	MULB	19- 12
YJ1410	MULB	18- 42
YJ1430	MULB	21-101
YJ1470	MULB	19- 74
YK1000	APX MULB	15- 82
YK1003	APX	15- 75
YK1004	APX MULB	15- 83
YK1005	APX ♦MULB	15- 81
YK1040	MULB	12- 74
YK1041	MULB	12- 29
YK1042	MULB	12- 14
YK1043	MULB	12- 98
YK1044	MULB	13- 16
YK1045	MULB	12- 13
YK1046	♦MULB	12- 64
YK1060	APX	15- 84
YK1070	APX MULB	12- 6
YK1071	APX MULB	11-106
YK1072	APX MULB	11- 85
YK1073	APX MULB	11- 71
YK1074	APX MULB	11- 58
YK1075	APX MULB	11- 50
YK1076	APX MULB	11- 34
YK1077	APX MULB	11- 22
YK1090	APX MULB	13- 51
YK1091	APX MULB	13- 52
YK1101	ALGG APX	11- 93
YK1140	APX ♦MULB	12- 7
YK1141	APX ♦MULB	11-100
YK1142	APX ♦MULB	11- 92
YK1143	APX ♦MULB	11- 80
YK1144	APX ♦MULB	11- 66
YK1145	APX ♦MULB	11- 56
YK1146	APX ♦MULB	11- 43
YK1147	APX ♦MULB	11- 27
YK1150	MULB	15- 76
YK1200	MULB	16- 70
Z158/150Z	ITT	16- 50
Z168/150Z	ITT	16- 52
Z220/1G	STCB	10- 99
Z5266	GESY	17- 96
Z5337	GESY	17-108
Z5360	GESY	18- 15
Z5405	GESY	17- 12
Z5424	GESY	22-102
Z5428	GESY	17- 19
Z5429	GESY	21- 77
Z5436	GESY	17- 87
ZM3031	GESY	30-106
ZM3040	GESY	31- 16
ZM3086	GESY	29- 58
ZM3088	GESY	28- 99
ZM3090	GESY	29- 52
ZM3091	GESY	29- 60
ZM3105	GESY	29- 3
ZM3110	GESY	27- 44
ZM3115	GESY	31- 4
ZM3116	GESY	31- 12
ZM3118	GESY	29- 57
ZM3124	GESY	29- 53
ZM3125	GESY	29- 59
ZM3127	GESY	29- 56
ZM3128	GESY	30- 1
ZM3207	GESY	28- 91
ZM3212	GESY	27- 36
ZM3227	GESY	27- 45
ZM3266	GESY	29- 2
ZM3267	GESY	30- 2
ZM5183	GESY	30-108
ZM6000	GESY	17- 20
ZM6001	GESY	17- 14
ZM6003	GESY	18- 34
ZM6006	GESY	17-107
ZM6011	GESY	22-101
ZM6014	GESY	16-108
ZM6015	GESY	18- 36
ZM6019	GESY	17-110
ZM6021	GESY	17- 13
ZM6022	GESY	17- 21
ZM6032	GESY	17- 67
ZM6033	GESY	17- 22
ZM6034	GESY	17- 77
ZM6046	GESY	17- 70
ZM6047	GESY	22-103
ZM6050	GESY	18- 7
ZM6051	GESY	17- 10
ZM6058	GESY	17- 17
ZM6059	GESY	18- 96
ZM6063	GESY	22-100
ZM6068	GESY	16-103
ZM6085	GESY	17- 2
ZM6086	GESY	17- 18
ZM6087	GESY	18- 21
ZM6103	GESY	17-106
ZM6104	GESY	17- 15
ZM6203	♦GESY	17- 66
ZM6204	GESY	16-107
ZM6206	GESY	16-104
ZM6211A	♦GESY	18- 1
ZM6220	♦GESY	17- 65
ZM6222	♦GESY	17-104
ZM6223	GESY	17-105
ZM6238	♦GESY	17- 11
ZM6242	♦GESY	17- 16
ZM6243	♦GESY	17-109
ZM6246	♦GESY	18- 35
ZM6257	♦GESY	18- 33
ZM6600	GESY	10- 43
ZM6601	GESY	10- 78
ZV1009	♦KLY	11- 2
ZV1010	♦KLY	10- 98
ZV1011	♦KLY	11- 21
ZV1011A	KLY	12- 27
ZV1012	KLY VAR	10- 97
ZV1021	VAR	10-103

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	F4029E	3000M	300m	2.000G-4.000G	CW	1.5k	20m							9.0
2	196H	93.75G	3.0k	92.75G-94.75G	300u	30k	2.4			Ø	OS	VT	WA	25 △
3	RW716	605M	350	530.0M - 680.0M	CW	5000	.30			BWTM	OS	VT	CO	48 *
4	SE223	750M	.03 †	500.0M - 1.000G	CW	750	.017			BWT*†	OS	VT	WA	15 △
5	RW715	770M	350	670.0M - 870.0M	CW	5000	.30			BWTM	OS	VT	CO	47 *
6#	CMP1230	895M	5.0k	830M-960M	CW			17		BWT	AM	VT	WA	
7	RW714	985M	350	860.0M - 1.110G	CW	5000	.30			BWTM	OS	VT	CO	37 *
8	RW713	1225M	250	1.050G - 1.400G	CW	5000	.30			BWTM	OS	VT	CO	31 *
9	RW718	1250M	1000	1.100G - 1.400G	CW	7000	1.2			BWTM	OS	VT	CO	35 *
10#	CMA1229	1350M	1500	1.200G - 1.500G	CW	7000	1.2			BWTM	OS	VT	CO	42
11	M5247	1500M	.02 †	1.000G - 2.000G	CW					BWT	OS	VT	CO	
12	F2508	1500M	.10 †	1.000G - 2.000G	CW	1000	.025			BWT†	OS	VT	CO	14.5 △
13	SE214A	1500M	.10 †	1.000G - 2.000G	CW	2100	.017			BWT†*	OS	VT	CO	14.5 △
14	VA183M	1500M	.10 †	1.000G - 2.000G	CW	1200	.029			BWT	OS	VT	CO	17
15#	CO515E	1540M	1.1	980.0M - 2.100G	CW	1500	.07			BWT	OS	VT	CO	13.2
16	RW712	1560M	250	1.350G - 1.770G	CW	5000	.30			BWTM	OS	VT	CO	31 *
17	F2055#	1800M	.01	1.000G - 2.600G	CW	1575	.017			BWTØ	OS	VT	CO	
18	VA186M	1800M	.05	1.000G - 2.600G		1500	.039			BWT	OS		CO	17
19	SE214	1800M	.10 †	1.000G - 2.600G	CW	2100	.018			BWT†*	OS	VT	CO	14.5 △
20	RW711	1915M	250	1.670G - 2.160G	CW	5000	.30			BWTM	OS	VT	CO	7.0 *
21	SE219A	1950M	.10 †	1.400G - 2.500G	CW	1500	.017			BWT*†	OS	VT	CO	14.5
22	F2507	2300M	.10	1.800G - 2.800G		700	.015			BWT†	OS	VT	CO	10 △
23	RW710	2425M	350	2.150G - 2.700G	CW	5000	.30			BWTM	OS	VT	CO	7.0 *
24#	CO210C	2460M	2.0	1.600G - 3.200G	CW	1700	.08			BWT†	OS	VT	CO	10.12
25	F2513	2650M	.025	1.300G - 4.000G	CW	2300	.015			BWT†	OS	VT	CO	14.5 △
26	SE215	2950M	.03 †	1.700G - 4.200G	CW	2150	.015			BWT†*	OS	VT	CO	7.25 △
27	WJ2051	3.0G	30m†	2.0G-4.0G	CW	1.5k	10m			BWT*	OS	VT	CO	11 △
28	SE310	3000M	.05 †	2.000G - 4.000G	CW	1400	.015			BWT*†	OS	VT	CO	3.5 △
29	WJ2024	3000M	.05 †	2.000G - 4.000G	CW	1350	.015			BWT*†	OS	VT	CO	7.25 △
30	WJ2040-2	3.0G	50m†	2.0G-4.0G	CW	1.4k	3.0m			BWT†	OS	VT	CO	9.7 △
31	WJ2018	3000M	.07	2.000G - 4.000G	CW	1800	.014			BWT*†	OS	VT	CO	8.0
32	SE215A	3000M	.075 †	2.000G - 4.000G	CW	1900	.015			BWT†*	OS	VT	CO	7.25 △
33	F2509	3000M	.10 †	2.000G - 4.000G	CW	2100	.015			BWT†	OS	VT	CO	14.5 △
34#	CO127D	3000M	.75	2.000G - 4.000G	CW	1500	.06			BWT†	OS	VT	CO	10.12
35	RW709	3050M	250	2.650G - 3.450G	CW	5000	.30			BWTM	OS	VT	CO	7.0 *
36	RW717	3050M	600	2.650G - 3.450G	CW	6000	.60			BWTM	OS	VT	CO	17 *
37	WJ2031-2	3120M	.06 †	2.090G - 4.150G	CW	1500	.014			BWT*†	OS	VT	CO	8.6 △
38	WJ2014-1	3.25G	50m†	2.0G-4.5G	CW	2.0k	15m			BWT†	OS	VT	CO	6.0 △
39	WJ2040	3.25G	50m†	2.0G-4.5G	CW	1.8k	3.0m			BWT†	OS	VT	CO	9.7 △
40#	CO119C	3350M	.60	2.400G - 4.700G	CW	1500	.055			BWT	OS	VT	CO	
41	F2056	3400M	.01	2.300G - 4.500G	CW	2700	.013			BWTØ	OS	VT	CO	
42	RW708	3525M	200	3.150G - 3.900G	CW	5000	.30			BWTM	OS	VT	CO	7.0 *
43	SE310-3	3.9G	50m†	2.6G-5.2G	CW	1.92k	15m			BWT*†	OS	VT	CO	3.5 △
44	WJ2038	3.9G	50m†	2.6G-5.2G	CW	1.92k	3.0m			BWT†	OS	VT	CO	9.7 △
45	WJ2032-2	4000M	.01 †	3.000G - 6.000G		2000	.012			BWT	OS	VT	CO	9.0
46	WJ2032	4000M	180m*	2.000G-6.000G	CW	1905	2.0m△			BWT†	OS		CO	9.5
47	L3725	4175M	180 †	3.500G - 4.850G	CW	5200	.35			BWTM#*	OS	VT	WA	16 △
48	RW707	4350M	200	3.850G - 4.350G	CW	5000	.30			BWTM	OS	VT	CO	7.0 *
49#	F4187	4500M	.90 †	3.000G - 6.000G	CW	1600	40			BWT	OS	VT	CO	8.0 *
50	F2517	4600M	.05 †	3.700G - 5.500G	CW	1100	.02			BWT†	OS	VT	CO	10 △
51	333H	4600M	.08	3.700G - 5.500G	CW	1000	.016			BWT†	OS	VT	CO	7.0 △
52	F2514	5000M	.02	2.000G - 8.000G						BWT†	OS			
53	SE221	5125M	.04 †	3.500G - 6.750G	CW	2100	.012			BWT*†	OS	VT	CO	6.0 △
54	RW706	5350M	200	4.750G - 5.950G	CW	5000	.30			BWTM	OS	VT	CO	5.0 *
55	F2512	5400M	.02 †	3.600G - 7.200G		1500	.015			BWT†	OS	VT	CO	10 △
56#	CO94C	5400M	.03 †	3.600G - 7.200G		1500	.04			BWT†	OS	ET	CO	7.7
57	F7824	5650M	.05	5.400G - 5.900G	CW	900	.01			BWTØ	OS	VT	CO	
58	SE217	5650M	.10 †	5.300G - 6.000G	CW	800	.02			BWT†*	OS	VT	CO	6.0 △
59	F2521	5650M	.25 †	5.400G - 5.900G	CW	1400	.025			BWT†	OS	VT	CO	10 △
60	L3146	5675M	150 †	4.800G - 6.550G	CW	5500	.30			BWTM#*	OS	VT	WA	16.5 △
61	F2076	5700M	.40	5.600G - 5.800G	CW	2300	.025			BWT†	OS	VT	CO	10 △
62	D2045	6000M	.01	4.000G - 8.000G	CW	2500	.01			BWTØ	OS	VT	CO	
63	F2045	6000M	.01	4.000G - 8.000G	CW	2000	.005			BWT*	OS			
64	SE211B	6000M	.01 †	3.700G - 8.300G	CW	2200	.012			BWT†*	OS	VT	CO	6.0 △
65	SE211A	6000M	.02 †	4.000G - 8.000G	CW	2000	.012			BWT†*	OS	VT	CO	6.0 △
66	SE304	6000M	.02 †	4.000G - 8.000G	CW	2000	.012			BWT†*	OS	VT	CO	1.5
67	WJ2025	6.0G	20m†	4.0G-8.0G	CW	1.8k	15m			BWT*	OS	VT	CO	1.5 △
68	F2510	6000M	.025 †	4.000G - 8.000G	CW	2500	.015			BWT†	OS	VT	CO	10 △
69	190H	6000M	.03	4.000G - 8.000G	CW	2000	.025			BWT†	OS	VT	CO	5.0 △
70	WJ2019	6000M	.03 †	4.000G - 8.000G	CW	1850	.012			BWT*†	OS	VT	CO	6.5
71	WJ2050	6.0G	30m†	4.0G-8.0G	CW	1.9k	10m			BWT*	OS	VT	CO	9.5 △
72	WJ2005	6000M	.04 †	4.000G - 8.000G	CW	2100	.014			BWT*	OS	VT	CO	7.25
73	WJ2015	6000M	.05 †	4.000G - 8.000G	CW	2150	.015			BWT†	OS	VT	CO	6.0 △
74	WJ2030	6000M	.05 †	4.000G - 8.000G		2150	.012			BWT				1.5 △
75	WJ2047	6000M	.05 †	4.000G - 8.000G	CW	1500	.015			BWT†	OS	VT	CO	6.0
76	WJ2034	6.0G	60m†	4.0G-8.0G	CW	2.2k	3.0m			BWT†	OS	VT	CO	6.5 △
77#	RW051	6.00G	200m	4.00G-8.00G		2000	16m			BWT	OS	EM	WC	8.6
78	WJ2045	6000M	220m	4.00G-8.00G	CW	1500	12m			BWT†*	OS	VT	CO	9.5 △
79#	F4188	6175M	250	5.925G - 6.425G	CW	3500	.30	20		BWTM	AM	VT	WA	9.0
80	335H	6450M	.08	5.300G - 7.600G	CW	1100	.015			BWT†	OS	VT	CO	7.0 △
81	RW705	6550M	200	5.850G - 7.250G	CW	5000	.30			BWTM	OS	VT	CO	5.0 *
82#	RW05	7150M	100m	5.80G-8.50G	CW	2500	12m			BWT	OS	VT	CO	6.0 *
83	WJ2044	7200M	100m	4.80G-9.70G	CW	1912	13m			BWT†*	OS	VT	CO	8.0 △
84#	CO63C	7200M	1.0 *	4.800G - 9.600G	CW	1700	.04			BWT†	OS	VT	CO	7.7
85	L3147	7550M	125 †	6.550G - 8.550G	CW	5500	.30			BWTM#*	OS	VT	WA	16.5 △
86	L3727	7550M	150 †	6.500G - 8.550G	CW	5200	.35			BWTM#*	OS	VT	WA	16.5 △
87	F2518	7650M	.05 †	6.600G - 8.700G	CW	1200	.012			BWT†	OS	VT	CO	10 △
88	VA443M	7800M	.03	5.200G - 10.40G		1500	.03			BWT	OS		CO	4.5
89	VA188M	7800M	.05	5.200G - 10.40G		1500	.03			BWT	OS		CO	9.0
90	RW704	7900M	175	7.150G - 8.650G	CW	5000	.30			BWTM	OS	VT	CO	5.0 *
91	F2046	7950M	.01	5.900G - 10.00G	CW	2500	.01			BWT†	OS	VT	CO	
92	F2516	8150M	.025 †	5.300G - 11.00G	CW	2800	.015			BWT†	OS	VT	CO	10 △
93	336H	8800M	.04	7.400G - 10.20G	CW	1000	.015			BWT†	OS	VT	CO	7.0 △
94	171H	8800M	.06	8.300G - 9.300G	CW	470	.015			BWT†	OS	VT	CO	3.5 △
95	WJ2033-2	9000M	.01 †	6.000G - 12.00G		2000	.012			BWT	OS	VT	CO	6.0
96	WJ2006-4	9000M	.02 †	7.000G - 11.00G		1100	.012			BWT	OS	VT	CO	5.0
97	WJ2042	9.0G	30m†	7.0G-11G	CW	1.0k	15m			BWT†	OS	VT	CO	4.0 △
98#	CO43C	9000M	.045 †	7.000G - 11.00G		1460	.035			BWT†	OS	ET	CO	7.7
99#	W421C	9.200G	25m	7.200G-11.200G	CW	170	400u			BWT	OS		CO	8.82
100	WJ2001-1	9200M	.05 †	8.000G - 12.40G	CW	1600	.012			BWT*†	OS	VT	CO	3.0 △
101#	BWX3	9450M	100 †	8.500G - 10.40G*	CW	4800	.375			BWTM†	OS	VT	WA	45 △
102#	RRW010	9.600G	1.0	6.500G-12.70G	CW	2.6k	30m			BWT*	OS	EM	CO	3.31 *
103	SE209	9700M	.01 †	7.000G - 12.40G	CW	2000	.012			BWT†*	OS	VT	CO	6.0 △
104	F2520	9700M	.02	7.000G - 12.40G	CW	2800	.012			BWT†	OS	VT	CO	10 △
105	WJ2001	9700M	.025 †	7.000G - 12.40G	CW	1600	.012			BWT*†	OS	VT	CO	3.0 △
106#	F4053	9700M	.035 †	7.000G - 12.40G		1500	.025			BWT†	OS	ET	CO	5.5
107	WJ2039-1	9.7G	40m†	7.0G-12.4G	CW	2.15k	3.0m			BWT†	OS	VT	CO	6.0 △
108	JAN8677	9725M	150 †	8.450G - 11.00G	CW	5500	.30			BWTM#	OS	VT	WA	20
109	L3148	9750M	125 †	8.500G - 11.00G	CW	5500	.30			BWTM#*	OS	VT	WA	16 △
110	RW703	9800M	150	8.600G - 11.00G	CW	5000	.30			BWTM	OS	VT	WA	5.0 *

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY
(3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	WJ2017	9850M	.15 †	8.700G - 11.00G		1500	.012			BWT				2.0
2	WJ2033-1	10200M	.01 †	8.000G - 12.40G	CW	2150	.003			BWT†	OS	VT	CO	6.0 Δ
3	F2511	10200M	.025	8.000G - 12.40G	CW	2800	.012			BWT†	OS	VT	CO	10 Δ
4#	W421B	10.200G	25m	8.000G-12.400G	CW	170	400u			BWT	OS		CO	8.82
5	191H	10200M	.05	8.000G - 12.40G	CW	2000	.025			BWT†	OS	VT	CO	6.5 Δ
6	WJ2006	10200M	.05 †	8.000G - 12.40G	CW	1600	.012			BWT*	OS	VT	CO	6.0
7	WJ2020	10200M	.05 †	8.000G - 12.40G	CW	1600	.012			BWT*	OS	VT	CO	6.5
8	WJ2027	10200M	.05 †	8.000G - 12.40G	CW	1600	.003			BWT*	OS	VT	CO	1.5 Δ
9	WJ2008-2	10.2G	80m†	8.0G-12.4G	CW	2.15k	1.2m			BWT†	OS	VT	CO	3.0 Δ
10	WJ2039	10.2G	80m†	8.0G-12.4G	CW	2.15k	3.0m			BWT†	OS	VT	CO	6.0 Δ
11#	OPX1	10.25G	50m	8.5G-12G*	CW	2.0k	25m			BWTΔ	OS	VT	WA	
12	WJ2008	10250M	.10 †	8.000G - 12.40G	CW	2100	.015			BWT*†	OS	VT	CO	3.0
13	SE209A	10300M	.02 †	8.200G - 12.40G	CW	2000	.012			BWT†*	OS	VT	CO	6.0 Δ
14	SE303	10300M	.02 †	8.200G - 12.40G	CW	2000	.012			BWT†*	OS	VT	CO	1.5
15	VA161G	10.3G	20m†	8.2G-12.4G	CW	650	30m			BWT*†	OS	VT	WA	7.0
16#	VA161K	10300M	.02	8.200G - 12.40G	CW	650	.012			BWT	OS	VT	WA	7.0
17	WJ2026	10300M	.02 †	8.200G - 12.40G	CW	2000	.012			BWT*	OS	VT	CO	1.5 Δ
18	SE313	10300M	.05 †	8.200G - 12.40G	CW	1500	.01			BWT*†	OS	VT	CO	1.5 Δ
19	174H	10300M	.15	8.200G - 12.40G	CW	1650	.02			BWT†	OS	VT	CO	5.5 Δ
20	WJ2004	11250M	.01 †	9.500G - 13.00G	CW	800	.01			BWT†	OS	VT	CO	3.0 Δ
21	M5334	11500M	.01 †	10.50G - 12.50G	CW	1000	.008			BWT§	OS	VT	CO	
22	RW702	11900M	130	10.80G - 13.00G	CW	5000	.30			BWTM	OS	VT	WA	5.0 *
23#	CO521B	12000M	.015 †	8.000G - 16.00G		1900	.02			BWT†	OS	ET	CO	5.5
24	WJ2067	12000M	70m	8.00G-16.0G	CW	2150	12.5m			BWT†*	OS	VT	CO	9.5 Δ
25#	CO521C	12000M	.15 *	8.000G - 16.00G	CW	1900	.02			BWT†	OS	VT	CO	
26	339H	12500M	.04	9.900G - 14.20G	CW	1120	.015			BWT†	OS	VT	WA	6.5 Δ
27	SE220	12750M	.01 †	10.00G - 15.50G	CW	2250	.01			BWT*†	OS	VT	WA	6.0 Δ
28	WJ2069	12750M	110m	10.0G-15.5G	CW	1975	14m			BWT†*	OS	VT	CO	9.5 Δ
29	WJ2068	13250M	55m	8.5G-18.0G	CW	2270	12.5m			BWT†*	OS	VT	CO	9.5 Δ
30	RW701	14050M	100	12.80G - 15.30G	CW	5000	.30			BWTM	OS	VT	WA	7.0 *
31	315H	15000M	.02	12.50G - 17.50G	CW	1800	.011			BWT†	OS	VT	WA	12 Δ
32	WJ2065	15.00G	48m*	10.00G-20.00G	CW	2242	2.0mΔ			BWT†	OS		CO	9.5
33	SE216	15200M	.01 †	12.40G - 18.00G	CW	2000	.012			BWT†*	OS	VT	WA	6.0 Δ
34	SE307A	15200M	.01 †	12.40G - 18.00G	CW	2100	.012			BWT*†	OS	VT	WA	1.5 Δ
35	112H	15200M	.02	12.40G - 18.00G	CW	1000	.015			BWT†	OS	VT	CO	1.2 Δ
36	113H	15200M	.02	12.40G - 18.00G	CW	1000	.015			BWT†	OS	VT	CO	2.7 Δ
37	SE307	15200M	.02 †	12.40G - 18.00G	CW	2100	.012			BWT*†	OS	VT	WA	1.5 Δ
38	WJ2028	15200M	.02 †	12.40G - 18.00G	CW	2100	.012			BWT†	OS	VT	WA	1.5 Δ
39	WJ2052	15200M	.02 †	12.40G - 18.00G	CW	1500	.015			BWT†	OS	VT	WA	6.5
40	192H	15200M	.04	12.40G - 18.00G	CW	1950	.014			BWT†	OS	VT	CO	10.5 Δ
41	WJ2003	15200M	.04 †	12.40G - 18.00G	CW	2050	.012			BWT*†	OS	VT	CO	6.0 Δ
42	WJ2007	15200M	.04 †	12.40G - 18.00G	CW	2000	.012			BWT*	OS	VT	WA	6.0
43	WJ2021	15200M	.04 †	12.40G - 18.00G	CW	2100	.012			BWT*†	OS	VT		6.0 Δ
44	WJ2043	15200M	.04 †	12.40G - 18.00G	CW	2100	.003			BWT†*	OS	VT	CO	5.5 Δ
45	WJ2056	15.2G	40m†	12.4G-18G	CW	2.1k	15m			BWT*	OS	VT	CO	9.0 Δ
46	VA162	15200M	.06	12.40G - 18.00G†	CW	1000	.02			BWT*	OS	VT	WA	7.0 *
47	110H	15200M	.10	12.40G - 18.00G	CW	2000	.015			BWT†	OS	VT	CO	1.5
48	111H	15200M	.10	12.40G - 18.00G	CW	2000	.015			BWT†	OS	VT	CO	2.7
49	SE308	15500M	.01 †	14.00G - 17.00G	CW	800	.012			BWT*†	OS	VT	WA	1.0 Δ
50	SE308A	15500M	.01 †	14.00G - 17.00G		800	.012			BWT				1.0 Δ
51	WJ2029	15500M	.01 †	14.00G - 17.00G	CW	800	.012			BWT*†	OS	VT	CO	1.0 Δ
52#	BWJ4	16450M	100 †	14.90G - 18.00G*	CW	4800	.375			BWTM†	OS	VT	WA	20 Δ
53	M5242	16500M	.05 †	15.00G - 18.00G	CW					BWT	OS	VT	WA	
54#	F4190	16500M	100	15.00G - 18.00G	CW	3500	.30	20		BWTM	AM	VT	WA	
55	RW700	16500M	100	15.00G - 18.00G	CW	5000	.30			BWTM	OS	VT	WA	7.0 *
56#	CO2012B	19750M	.40 *	15.50G - 24.00G	CW	2700	.04			BWT†	OS	VT	CO	16.5
57	M5252	22000M	.01 †	18.00G - 26.00G	CW					BWT§	OS	VT	WA	
58	SE218	22250M	.02 †	18.00G - 26.50G	CW	2000	.01			BWT*†	OS	VT	WA	4.0 Δ
59	WJ2022	22.25G	20m†	18G-26.5G	CW	2.0k	10m			BWT†	OS	VT	WA	6.0 Δ
60	WJ2057	22.25G	20m†	18G-26.5G	CW	2.0k	10m			BWT*	OS	VT	CO	6.5 Δ
61	SE311	22500M	.02 †	18.00G - 27.00G	CW	2000	.01			BWT*†	OS	VT	WA	5.0 Δ
62#	RRW025	25000M	.75	24.00G - 26.00G	CW	2100	.025			BWT	OS	MT	WA	3.0 *
63#	CO1308B	30500M	.50 *	23.50G - 37.50G	CW	3250	.045			BWT†	OS	VT	WA	35
64	SE312	33250M	.005 †	26.50G - 40.00G		2000	.01			BWT				5.0 Δ
65	WJ2041	33.25G	10m†	26.5G-40G	CW	2.1k	1.5m			BWT†	OS	VT	WA	6.0 Δ
66	WJ2058	33.25G	10m	26.5G-40G	CW	2.1k	5.0m			BWT*	OS	VT	CO	6.5 Δ
67#	RRW040	36000M	.15	32.00G - 40.00G	CW	2500	.026			BWT*	OS	EM	WA	3.31 *
68	CO70	43.50G	10m*	37.00G-50.00G	CW	3.0k	35m			BWT†	OS	VT	WA	27 *
69	BA48H	48000M	.70	45.00G - 50.50G	CW	4000	.065			BWT	OS	VT	WA	
70	BA47H	49000M	.60	45.00G - 52.00G	CW	4000	.065			BWT	OS	VT	WA	22.1
71	50BW10	49500M	.12	44.00G - 54.00G	CW	3500	.04			BWT	OS	VT	WA	12.1
72	BA50H	51000M	.60	48.00G - 55.00G	CW	4000	.065			BWT	OS	VT	WA	22.1
73	381H	53000M	5.0	51.00G - 55.00G	CW	10000	.045			BWT†	OS	VT	WA	40 Δ
74	BA54H	54G	700m	51.5G-55G	CW	4.0k	65m			BWT	OS	VT	WA	17.6
75#	CO40BEA	70.000G	30	68.000G-71.000G	CW	6.000k	60m			BWT	OS	VT	WA	
76#	CO40-30	72500M	30 *	68.00G - 77.00G	CW	6000	.07			BWT†	OS	VT	WA	36 *
77#	CO40AEA	75.000G	30	73.000G-77.000G	CW	6.000k	60m			BWT	OS	VT	WA	
78	CO35	85.00G	1.0 *	80.00G-90.00G	CW	4.0k	35m			BWT†	OS	VT	WA	36 *
79	182H	94500M	1.0	90.00G - 99.00G	CW	15000	.035			BWT†	OS	VT	WA	40 Δ
80	CO30	95.00G	1.0 *	90.00G-100.0G	CW	4.0k	35m			BWT†	OS	VT	WA	36 *
81	183H	96500M	10	94.00G - 99.00G	CW	12000	.035			BWT†	OS	VT	WA	35 Δ
82#	RWO110	100000M	5.0m	90G-110G	CW	2.7k	15m			BWT	OS	VT	WA	17
83#	CO20BEA	132G	6	128G-136G	CW	6.000k	60m			BWT	OS	VT	WA	
84	184H	142.5G	2.0	135.0G - 150.0G	CW	20000	.035			BWTØ	OS	VT	WA	40 Δ
85#	CO20-5	142.5G	5.0	130.0G - 155.0G	CW	12000	.06			BWTØ	OS	VT	WA	200 *
86#	CO20AEA	150G	6	142G-158G	CW	6.000k	60m			BWT	OS	VT	WA	
87#	CO15	200G	.20	190.0G - 210.0G	CW	6000				BWT†	OS	VT	WA	36 *
88#	CO10-1	282500M	1.0	275G-290G	CW	12k	50m			BWT†	OS	VT	WA	70 *
89#	CO10-400	305G	.40 *	290.0G - 320.0G	CW	12000	.05			BWTØ	OS	VT	WA	36 *
90	CO-09	330G	.015 *	310.0G - 350.0G	CW	6000	.05			BWT†	OS	VT	WA	2.0 §
91	CO-09EA	330G	.05 *	310.0G - 350.0G	CW	6000	.05			BWTØ	OS	VT	WA	36 *
92	CO-06	500G	.01 *	480.0G - 520.0G	CW	6000	.04			BWT†	OS	VT	WA	36 *
93	CO-06EA	500G	.03 *	480.0G - 520.0G	CW	6000	.04			BWTØ	OS	VT	WA	2.0 §
94	CO-05	600G	.005 *	570.0G - 630.0G	CW	10000	.05			BWTØ	OS	VT	WA	2.0 §
95#	CO-04	775G	.002	760.0G - 790.0G	CW					BWTØ	OS	VT	WA	
96#	TPM1262	970M	50kΔ	390M-1550M	1.5m	17k	12	14		CFA†	AM		WA	55
97#	TPM1263	970M	165kΔ	390M-1550M	1.5m	26k	18	19		CFAØ	AM		WA	15.5
98#	TPM1264	970M	650kΔ	390M-1550M	1.2m	40k	40	15		CFAØ	AM		WA	55
99#	TPM1265	970M	3.6MΔ	390M-1550M	1.0m	65k	140	13		CFAØ	AM		WA	110
100	SFD212	1.2G	150k†	1.15G-1.25G	2.0m	9.5kØ§	31	15		CFA	AM		CO	130 Δ
101	SFD216	1.2G	750k†	1.15G-1.25G	2.0m	30kØ§	50	10		CFA	AM		CO	140 Δ
102#	TPM1217	2850M	2500	2.600G - 3.100G	.30	6400	1.6	18		CFA*	AM		WA	12.5
103#	TPM1236	2850M	500000	2.700G - 3.000G	.01	40000	25	17		CFA	AM		CO	45
104	SFD248	2950M	100k†	2.7G-3.1G	10m	14k	20	11		CFA#	AM		WA	40 Δ
105	SFD255	3.0G	660k†	2.9G-31G	13m	35k	40	12		CFA	AM		WA	
106	RW61BB	5.00G	800	4.600G-5.400G	CW	5500 Ø	700mØ	17		CFA*	AM		WA	17
107	RW61BA	5.00G	2.5k	4.600G-5.400G	300m	6500 Ø	1.5	20		CFA*	AM		WA	17
108#	TPM1218	5000M	2500	4.600G - 5.400G	.20	7200	1.7	18		CFA*	AM		WA	11
109	SFD258	9.1G	300k†	9.0G-9.2G	4.2m	22k	33	15		CFA	AM		WA	28 Δ
110	SFD219	9.3G	250k†	9.0G-9.6G	1.0m	25kØ	30	13		CFA	AM		WA	28 Δ

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	SFD229	9.3G	400k†	9.0G-9.6G	5.0m	32k	30	15		CFA	AM		WA	34 △
2	SFD235	9.4G	250k†	9.2G-9.6G	2.0m	25k	28	15.5		CFA	AM		WA	28 △
3	L3765	9575M	1000	8.850G - 10.30G	CW	12000	.40	17		CFA	AM		WA	33
4	L3909	16000M	350 †	14.50G - 17.50G	CW	14000	.20	20†		CFA	AM		WA	25
5	SFD253	16250M	100k†	16.0G-16.5G	3.0m	16k	14			CFA#	AM		WA	15 △
6	L5031	16500M	250 †	15.50G - 17.50G	CW			20†		CFA				30 △
7	SFD239	16.5G	70k†	16G-17G	1.4m	16k	25	18.5		CFA	AM		WA	15 △
8#	F9076	300M	40	200.0M - 400.0M	CW	1500	.20			CFNG	OS		CO	
9#	F9084	600M	100	450.0M - 750.0M	CW	2200	.35			CFNG	OS		CO	
10#	F9091	1300M	60	1.250G - 1.350G	CW	1700	.40			CFNG	OS		CO	
11#	F9099	3000M	400	2.700G - 3.300G	CW	5000	.80			CFNG	OS		CO	
12	JAN7797		1000	1.000T	.01	115 §∅	1.5			FWTM§			CO	13 △
13	TVL207T1	1.5G	10m†	1.0G-2.0G	CW	450	2.0m	30†	10*	FWTO	AML	FF	CO	3.5
14	TVS401T1	3.0G	10m†	2.0G-4.0G	CW	600	1.2m	25†	8.0*	FWTO	AML	FF	CO	9.3
15	LB4-30	4000M	30 †	3.700G - 4.200G	CW	3500	.002	37	27	FWTM	AM		WA	
16	TVC402T1	6.0G	5.0m†	4.0G-8.0G	CW	750	1.2m	25†	7.0*	FWT∅	AML	FF	CO	9.3
17	TV626G	6000M	100 †	4.000G - 8.000G	CW	5000	.225	30		FWTO	AM	FF	CO	
18	TV618G	9700M	20 †	7.000G - 12.40G	CW	3500	.10	35†	35	FWT	AM	FF	CO	2.5
19	TVX405T2	10G	5.0m	8.0G-12G	CW	850	1.2m	25†	8.0*	FWTO	AML	FF	CO	9.3
20	VA145A	2750M	7.0M*	2.750G		145k	106	41		HYKT	AM	FF	WA	585 △*
21	VA145C	2800M	3.5M	2.700G - 2.900G	.005	125.0k	86	32		HYKT∅	AM		WA	140
22	VA145	3.3G	7.0M	2.6G-4.0G	1.4m	150k	112	37		HYKT∅	AM	FF	WA	585 △*
23	JANQK547		.02 †			300	.048			KL		MT	WA	
24	L5024	425M	30M	415.0M - 440.0M	.005	250.0k	380	40†		KL	AM	MT	WA	1800 △
25	JAN3K27	855M	1.0 †	750.0M - 960.0M		1000	.09			KL	OS	ET	CO	
26	JAN3K23	1050M	1.0 †	950.0M - 1.150G		1000	.09			KL	OS	ET	CO	
27	L3739	1290M	200k†	1.260G - 1.320G	.25	40000	17	30		KL	AM	MT	WG	200 △
28	L3847	1300M	200k	1.250G - 1.350G	.05	50k	15	26		KL	AM	MT	WA	300
29	L3876	1300M	300000	1.250G - 1.350G	.03	43000	30	38		KL	AM	MT	WA	1000 *
30	L3531	1.3G	25M†	1.25G-1.35G	3.3m	240k	290	36†		KL	AM	MT	WA	200 △
31#	TV2023	1300M	40M	1.200G - 1.400G		300.0k	230	53		KL	AM	MT	WA	
32#	RK6112A	3150M	.10 †	2.600G - 3.700G	CW	250	.034			KL	OS	SR		.0625
33	SAS53101	3.300G	45k	3.100G-3.500G	40m	29k	5.5	30		KL	AM	MT	WA	120 *
34#	TV2016	3375M	20000	1.55G-5.20G		240k	235	40		KL	AM			143
35	JAN2K54	4425M	.750	4.290G - 4.560G	.15	1300	.013			KL	OS	MT	WA	
36	JAN2K55	4725M	.750	4.590G - 4.860G	.15	1300	.013			KL	OS	MT	WA	
37	JAN8404	5657M	2.0 †	5.385G - 5.930G	CW	1100	.175			KL	AM	MT	CO	
38#	TH2049	5710M	500			7500	470m	40		KL	AM			66
39	SAC4890	6.1G	1.0M△	4.0G-8.2G*	7.3m	85k	50	45		KL	AM	FF		135 △
40	SAC4900	6.1G	1.5M△	4.0G-8.2G*	5.0m	100k	60	50		KL	AM	FF		135 △
41	SAC4920	6100M	5.0M△	4.000G - 8.200G	.001	145k	115	46		KL	AM			175 △
42	SAC4910	6.1G	5.5M△	4.0G-8.2G*	1.0m	150k	120	35		KL	AM	FF		200 △
43	ZM6600	8400M	40000	8.300G - 8.500G	CW			45		KL	AM		WA	
44	JAN6940	9080M	.02 †	8.500G - 9.660G	CW	350	.032			KL	OS	TT	CO	
45	JAN6316	9250M	.04 †	8.500G - 10.00G		350	.042			KL	OS		WA	.44
46	SAX4410	10300M	15000 △	8.200G - 12.40G	.15	25000	2.0	60		KL	AM			
47	SAX5186	10500M	10000 †	10.50G	CW	20000	2.9	55		KL	AM	FF		182 *
48	SAX5187	10600M	15000 †	10.60G	CW	20000	2.9	55		KL	AM	FF		182 *
49	JAN6994	16000M	.02 †	15.80G - 16.20G	CW	350	.045			KL	OS	MT	WA	.25
50	JAN6541	24000M	.085 †	23.25G - 24.75G	CW	330	.03			KL	OS	MT	WA	
51#	VKE2409B	65G	5.0	50G-80G△	CW	7000	115m			KL	OS	MT	WA	15
52#	VKE2406A1	69.5G	15	70G-71G	CW	7.0k	90m			KL	OS	MT	WA	20
53#	VKE2408A	75000M	500m†	70G-80G△	CW	3000	3.0m△			KL	OS	MT	WA	7.5
54#	VKE2409A1	75G	3.0	74G-76G	CW	5.8k	90m			KL	OS	MT	WA	20
55#	VKE2408A1	76000M	1.0	75.5G-76.5G	CW	3000	65m			KL	OS	MT	WA	7.5
56	L5248	1.230G	15k		7.0m	21k	3.0	40		KL△	AM	MT	CO	35
57	L5044	2295M	100	2.290G - 2.300G	CW	2700	.105	30*		KL△	AM	FF	CO	3.0
58	SAS28	2640M	250		CW	4000	.35			KL△	AM	MT	WA	5.2
59	L3910B	3000M	20	2.000G - 4.000G∅		1850	.06	20†		KL△	AM	FF	CO	2.63
60#	NVF41	4000M	.70	3.700G - 4.300G†	CW	400	.06			KL*	OS	MT	WA	1.9 △*
61#	NVF51A	4900M	.70	4.700G - 5.100G	CW	400	.06			KL*	OS	MT	WA	1.9 △*
62#	V231C/1K	3.12G	40m†	3.06G-3.18G*	CW	230	45m			KL†	OS	FM	WA	
63#	V233A/1K	3.3G	300m†	2.7G-4.2G*	CW	450	65m			KL†	OS	SR	CO	
64#	V235A/1K	3.5G	500m†	2.7G-4.0G*	CW	360	65m			KL†	OS	FM	CO	
65#	V237C/1K	3.7G	350m†	3.6G-3.8G*	CW	285	65m			KL†	OS	FM	WA	
66#	V245C/1K	4.5G	200m†	4.4G-4.6G*	CW	260	65m			KL†	OS	FM	WA	
67	4K3CC	4700M	1200	4400M-5000M	CW	7500	470m	51		KL†	AM	MT	CO	52
68#	V249C/1K	4.9G	200m†	4.76G-5.0G*	CW	290	65m			KL†	OS	FM	WA	
69#	V265A/1M	6.5G	200m†	5.85G-7.1G*	CW	500	60m			KL†	OS	SR	WA	
70	810H	53000M	10	51.00G - 55.00G	CW	10000	.06			KL†	OS	VT	WA	10 △
71	811H	94500M	5.0	90.00G - 99.00G	CW	10000				KL†	OS	VT	WA	
72	L3938	1300M	5.0M△	1.250G - 1.350G	.03	140.0k	120	35		KL#	AM		WA	2325 *
73	L3980	2.856G	19k		1.15m	250k	250	50		KL#†	AM	FF	WA	1.8k*
74	L3707	1300M	10M△	1.250G - 1.350G	.007	225.0k	200	36		KL∅	AM		WA	2500 *
75	5K70SF	1750M	20000	1700M-1800M	CW	17000	3.7	40		KL∅#	AM	MT	WA	300
76	L3735	2.8G	4.5M△	2.8G	3.3m	155k	145	50		KL∅	AM	FF	WA	880 *
77	8406	5.525G	1.3M	5.395G-5.655G	6.9m	30k	55	54		KL∅	AM	FF	WA	
78	ZM6601	8400M	50000	8.300G - 8.500G	CW	14000	13.2	45		KL∅	AM		WA	260 *
79#	V261C/1M	6.1G	800m†	5.85G-6.35G*	CW	600	60m			KLF†	OS	FM	WA	
80#	K3032	22500M	10 †	20.00G - 25.00G∅	CW	4000	.175			KLF#	OS	MT	WA	11 *
81#	KCT31B	31000M	4.0	30.50G - 31.50G	CW	2700	.15			KLF	OS	MT	WA	14.1
82#	KC31A	31000M	7.0	30.00G - 32.00G	CW	2700	.15			KLF	OS	FF	WA	13.4
83#	31LV10	31000M	10	29.50G - 32.50G	CW	1900	.12			KLF	OS	MT	WA	
84#	34LV10	34000M	10	33.00G - 35.00G	CW	1900	.14			KLF	OS	MT	WA	28.7
85	34LV20	34000M	10	33.20G - 34.80G	CW	2200	.12			KLF	OS	MT	WA	11.9
86#	K3061	34000M	25 †	30.00G - 38.00G∅	CW	4500	.15			KLF#	OS	MT	WA	11 *
87#	K3060	34500M	50 †	33.00G - 36.00G∅	CW	4500	.15			KLF#	OS	FF	WA	11 *
88#	K3043	35000M	10 †	34.00G - 36.00G∅	CW	4000 ∅	.15			KLF#	OS	MT	WA	11 *
89#	K3059	35000M	20 †	34.00G - 36.00G∅	CW	5000 ∅	.20			KLF#	OS	MT	WA	11 *
90#	45LV10	45000M	5.0	44.00G - 46.00G	CW	2000	.135			KLF	OS	MT	WA	28.7
91	L3693	50000M	1.0 †	48.00G - 52.00G	CW	4000	.15			KLF#	OS		WA	10
92#	50LV10	50000M	5.0	49.20G - 50.80G	CW	2000	.15			KLF	OS	MT	WA	28.7
93#	KC55B	55000M		53.00G - 57.00G	CW	3600	.20			KLF	OS	FF	WA	13.4
94	L3690	74000M	.10 †	68.00G - 80.00G	CW	4000	.15			KLF#	OS		WA	11
95	L3691	74000M	.10 †	68.00G - 80.00G	CW	4200	.15			KLF#	OS		WA	11
96	7506	1225M	10m	600M-1.850G	CW	325	15m			KLR△	OS	SE	CO	120m
97	ZV1012	1225M	10m†	600M-1.850G	CW	325	15m			KLR*△	OS	SE	CO	120m§
98	ZV1010	1850M	50m†	700M-3.000G	CW	350	35m			KLR*△	OS	SE	WC	120m§
99#	Z220/1G	2000M	.25 †	1.700G - 2.300G*	CW	350	.05			KLR	OS	FM	CO	
100#	2V32	2225M	3.5	2.150G - 2.300G	CW	1000	.11			KLR	OS	MT	CO	
101#	2V10	2480M	.08	2.370G - 2.590G	CW	330	.035			KLR	OS	MT	CO	
102#	R6112	2500M	.15	1.000G - 4.000G	CW	300	.025			KLR*	OS	SR		.063
103	ZV1021	2500M	.50	1.000G - 4.000G	CW	500	.045			KLR	OS	SR		
104#	3V30	2600M	1.0	2.500G - 2.700G	CW	900	.11			KLR	OS	MT	CO	
105#	3V10	2660M	.08	2.540G - 2.780G	CW	330	.035			KLR	OS	MT	CO	
106#	726C-N	2812.5M	100m	2.665G-2.960G	CW	300	25m			KLR	OS	MT	CO	90m
107	VA417C	2985M	.05 †	2.660G - 3.310G	CW	500	.02			KLR	OS	MT	WA	
108#	KR6/3	3030M	.15	2.930G - 3.130G	CW	300	.04			KLR	OS	SR	CO	.38
109#	KR6/2	3180M	.15	3.170G - 3.190G	CW	300	.04			KLR	OS	SR	CO	.38
110	MA2600	3300M	10000	3.100G - 3.500G	.025	15500	1.94	43		KLR	AM		WA	20

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	KS35-50	3400M	.10	3.100G - 3.600G	CW	2500	.018			KLR	OS	MT	WA	3.31
2	ZV1009	3750M	50m†	1.500G-6.000G	CW	350	35m			KLR*△	OS	SE	WC	120m§
3#	TK75	3900M	.65	3.500G - 4.200G	CW	600	.07			KLR	OS	MT	CO	.663
4#	4V32	3900M	1.5	3.630G - 4.170G	CW	1000	.11			KLR	OS	MT	WA	
5#	CV2354	4515M	.15	4.270G - 4.760G	CW	350	.07			KLR	OS	MT	CO	1.94
6#	CV2353	4600M	3.7	4.400G - 4.800G	CW	800	.15			KLR	OS	MT	CO	2.38
7#	TV2125CB	4700M	1.8 †	4.400G - 5.000G	CW	1000	.11			KLR		MT	WA	1.13
8	6037	5275M	.03	5.120G - 5.430G	CW	300				KLR	OS	TT	CO	
9	TK69/6584	5500M	.12	5.100G - 5.900G	CW	300	.50			KLR	OS	MT	CO	
10	6584	5500M	.135	5.100G - 5.900G	CW	300				KLR	OS	MT	CO	.50
11	JAN7472	5590M	.08 †	5.530G - 5.650G	CW	350	.05			KLR	OS	SR	WA	
12	JAN7069	5600M	.05 †	5.300G - 5.900G		385	.074			KLR		SR	WA	
13	TK108	5625M	.17	5.350G - 5.900G	CW	300				KLR	OS	MT	CO	.50
14	TK80	5650M	.085	5.350G - 5.950G	CW	330	.035			KLR	OS	MT	CO	.50
15	TK80/6584	5650M	85m	5.400G - 5.900G	CW	300	.50			KLR	OS	MT	CO	
16	TK108/6584	5650M	.15	5.400G - 5.900G	CW	300	.50			KLR	OS	MT	CO	
17#	LD811	5650M	2.0	5.400G - 5.900G	CW	800	.09			KLR	OS	MT	WA	
18	TK98	5700M	.01	5.450G - 5.950G	CW	425				KLR	OS	MT	CO	.50
19	X26F	5800M	.70 †	5.300G - 6.300G	CW	775	.08			KLR	OS	MT	WA	1.19
20	JANVA236	5925M	.06 †	5.850G - 6.000G	CW	385	.053			KLR	OS	VT	WA	
21	ZV1011	6000M	20m†	3.800G-8.200G	CW	1250	25m			KLR*△	OS	SE	WC	120m§
22#	YK1077	6075M	.70	5.925G - 6.225G	CW	775	.08			KLR	AM	MT	WA	.75
23#	6V301	6075M	1.0	5.925G - 6.225G	CW	900	.11			KLR	OS	MT	WA	
24#	6V431	6.075G	1.0	5.925G-6.225G	CW	900	110m			KLR	OS	MT	WA	
25#	6V201	6075M	1.2	5.925G - 6.225G	CW	775	.08			KLR	OS	MT	WA	
26#	6V251	6075M	1.2	5.925G - 6.225G	CW	800	.08			KLR	OS	MT	WA	
27#	YK1147	6075M	1.2	5.925G - 6.225G	CW	775	.08			KLR	OS	MT	WA	.51
28#	TV2213F	6125M	1.0	5.925G - 6.225G	CW	775	.08			KLR	OS	EM	WA	.77
29#	6V252	6175M	1.2	6.125G - 6.425G	CW	800	.08			KLR	OS	MT	WA	
30#	6V32	6175M	1.5	5.925G - 6.425G	CW	1000	.11			KLR	OS	MT	WA	
31#	6V311	6.19G	1.2	5.75G-6.625G	CW	800	110m			KLR	OS	MT	WA	
32#	6V241	6200M	1.3	5.800G - 6.600G	CW	800	.09			KLR	OS	MT	WA	
33#	6V271	6200M	1.3	5.800G - 6.600G	CW	800	.09			KLR	OS	MT	WA	1.39
34#	YK1076	6275M	.70	6.125G - 6.425G	CW	775	.08			KLR	AM	MT	WA	.75
35#	6V302	6275M	1.0	6.125G - 6.425G	CW	900	.11			KLR	OS	MT	WA	
36#	6V432	6275M	1.0	6.125G - 6.425G	CW	900	.11			KLR	OS	MT	WA	
37#	TV2213E	6275M	1.0	6.125G - 6.425G	CW	775	.08			KLR	OS	EM	WA	.77
38#	6V202	6275M	1.2	6.125G - 6.425G	CW	775	.08			KLR	OS	MT	WA	
39#	K366E	6275M	1.2	6.125G-6.425G	CW	750	80m			KLR	OS	MT	WA	550m
40#	K367E	6275M	1.2	6.125G-6.425G	CW	750	80m			KLR	OS	MT	WA	750m
41#	KY366E	6275M	1.2	6.125G - 6.425G	CW	750	.08			KLR	OS	MT	WA	.75
42#	KY367E	6275M	1.2	6.125G - 6.425G	CW	750	.08			KLR	OS	MT	WA	.75
43#	YK1146	6275M	1.2	6.125G - 6.425G	CW	775	.08			KLR	OS	MT	WA	.51
44#	6V26A	6300M	.10	6.100G - 6.500G	CW	330	.035			KLR	OS	MT	CO	
45#	6V26AM	6300M	.10	6.100G - 6.500G	CW	330	.035			KLR	OS	MT	CO	
46	X1095	6300M	.40	5.900G - 6.700G*		700	.06			KLR		FF	WA	.37
47	MCK10	6400M	1.65	5.300G - 7.500G†	CW	775	.08			KLR	OS	MT	CO	
48#	6V303	6475M	1.0	6.325G - 6.625G	CW	900	.11			KLR	OS	MT	WA	
49#	6V433	6475M	1.0	6.325G - 6.625G	CW	900	.11			KLR	OS	MT	WA	
50#	YK1075	6500M	.70	6.425G - 6.575G	CW	775	.08			KLR	AM	MT	WA	.75
51#	TV2213G	6500M	1.0	6.425G - 6.575G	CW	775	.08			KLR	OS	EM	WA	.77
52#	K366G	6500M	1.2	6.425G-6.575G	CW	750	80m			KLR	OS	MT	WA	550m
53#	K367G	6500M	1.2	6.425G-6.575G	CW	750	80m			KLR	OS	MT	WA	750m
54#	KY366G	6500M	1.2	6.425G - 6.575G	CW	750	.08			KLR	OS	MT	WA	.75
55#	KY367G	6500M	1.2	6.425G - 6.575G	CW	750	.08			KLR	OS	MT	WA	.75
56#	YK1145	6500M	1.2	6.425G - 6.575G	CW	775	.08			KLR	OS	MT	WA	.51
57#	KS7-85C	6655M	.08	6.250G - 7.060G	CW	350	.035			KLR	OS	MT	CO	.143
58#	YK1074	6725M	.70	6.575G - 6.875G	CW	775	.08			KLR	AM	MT	WA	.75
59#	7V304	6725M	1.0	6.575G - 6.875G	CW	900	.11			KLR	OS	MT	WA	
60#	7V434	6725M	1.0	6.575G - 6.875G	CW	900	.11			KLR	OS	MT	WA	
61#	TV2213D	6725M	1.0	6.575G - 6.875G	CW	775	.08			KLR	OS	EM	WA	.77
62#	K366D	6725M	1.2	6.575G-6.875G	CW	750	80m			KLR	OS	MT	WA	550m
63#	K367D	6725M	1.2	6.575G-6.875G	CW	750	80m			KLR	OS	MT	WA	750m
64#	KY366D	6725M	1.2	6.575G - 6.875G	CW	750	.08			KLR	OS	MT	WA	.75
65#	KY367D	6725M	1.2	6.575G - 6.875G	CW	750	.08			KLR	OS	MT	WA	.75
66#	YK1144	6725M	1.2	6.575G - 6.875G	CW	775	.08			KLR	OS	MT	WA	.51
67#	KS7-85E	6750M	.09	6.250G - 7.425G	CW	330	.035			KLR	OS	MT	CO	.143
68	KS7-85A	6835M	.07	6.250G - 7.425G	CW	330	.035			KLR	OS	MT	CO	.143
69#	CV5900	7000M	.10	6.500G - 7.500G	CW	350	.037			KLR	OS	MT	CO	.143
70#	KS7-85	7000M	.10	6.500G - 7.500G	CW	350	.037			KLR	OS	MT	CO	
71#	YK1073	7000M	.70	6.875G - 7.125G	CW	775	.08			KLR	AM	MT	WA	.75
72#	7V305	7000M	1.0	6.850G - 7.150G	CW	900	.11			KLR	OS	MT	WA	
73#	7V435	7000M	1.0	6.850G - 7.150G	CW	900	.11			KLR	OS	MT	WA	
74#	TV2213C	7000M	1.0	6.875G - 7.125G	CW	775	.08			KLR	OS	EM	WA	.77
75#	7V255	7000M	1.2	6.875G - 7.125G	CW	800	.08			KLR	OS	MT	WA	
76#	K366C	7000M	1.2	6.875G-7.125G	CW	750	80m			KLR	OS	MT	WA	550m
77#	K367C	7000M	1.2	6.875G-7.125G	CW	750	80m			KLR	OS	MT	WA	750m
78#	KY366C	7000M	1.2	6.875G - 7.125G	CW	750	.08			KLR	OS	MT	WA	.75
79#	KY367C	7000M	1.2	6.875G - 7.125G	CW	750	.08			KLR	OS	MT	WA	.75
80#	YK1143	7000M	1.2	6.875G - 7.125G	CW	775	.08			KLR	OS	MT	WA	.51
81#	R9556	7000M	2.2	6.875G - 7.125G	CW	1200	.14			KLR	OS	FM	WA	2.63
82	TV298	7150M	2.0 †	5.900G - 840.0M	CW	800	.085			KLR	OS	MT	WA	1.37
83	TV299	7150M	2.0 †	5.900G - 8.400G	CW	800	.085			KLR	OS	MT	WA	1.37
84	R9516	7175M	2.2	7.050G - 7.300G	CW	1200	.14			KLR	OS		WA	2.63
85#	YK1072	7275M	.70	7.125G - 7.425G	CW	775	.08			KLR	AM	MT	WA	.75
86#	TV2213B	7275M	1.0	7.125G - 7.425G	CW	775	.08			KLR	OS	EM	WA	.77
87#	7V206	7275M	1.2	7.125G - 7.425G	CW	775	.08			KLR	OS	MT	WA	
88#	K366B	7275M	1.2	7.125G-7.425G	CW	750	80m			KLR	OS	MT	WA	550m
89#	K367B	7275M	1.2	7.125G-7.425G	CW	750	80m			KLR	OS	MT	WA	750m
90#	KY366B	7275M	1.2	7.125G - 7.425G	CW	750	.08			KLR	OS	MT	WA	.75
91#	KY367B	7275M	1.2	7.125G - 7.425G	CW	750	.08			KLR	OS	MT	WA	.75
92#	YK1142	7275M	1.2	7.125G - 7.425G	CW	775	.08			KLR	OS	MT	WA	.51
93#	YK1101	7275M	1.5	7.125G - 7.425G	CW	950	.14			KLR	OS	MT	WA	.93
94#	R9704	7275M	2.2	7.150G - 7.400G	CW	1200	.14			KLR	OS	FM	WA	2.63
95#	7V306	7290M	1.0	7.125G - 7.455G	CW	900	.11			KLR	OS	MT	WA	
96#	7V436	7290M	1.0	7.125G - 7.455G	CW	900	.11			KLR	OS	MT	WA	
97#	R9630	7425M	2.2	7.300G - 7.550G	CW	1200	.14			KLR	OS	FM	WA	2.67
98	MCK12	7450M	.10	7.175G - 7.725G	CW	750	.08			KLR	OS	MT	CO	
99#	KS7-85B	7500M	.09	7.200G - 7.800G	CW	330	.035			KLR	OS	MT	CO	.143
100#	YK1141	7583M	1.2	7.425G - 7.750G	CW	775	.08			KLR	OS	MT	WA	.51
101#	8V207	7587M	1.0	7.425G - 7.750G	CW	775	.08			KLR	OS	MT	WA	
102#	K366A	7587M	1.2	7.425G-7.750G	CW	750	80m			KLR	OS	MT	WA	550m
103#	K367A	7587M	1.2	7.425G-7.750G	CW	750	80m			KLR	OS	MT	WA	750m
104#	KY366A	7587M	1.2	7.425G - 7.750G	CW	750	.08			KLR	OS	MT	WA	.75
105#	KY367A	7587M	1.2	7.425G - 7.750G	CW	750	.08			KLR	OS	MT	WA	.75
106#	YK1071	7588M	.70	7.425G - 7.750G	CW	775	.08			KLR	AM	MT	WA	
107#	8V307	7590M	1.0	7.425G - 7.755G	CW	900	.11			KLR	OS	MT	WA	
108#	8V437	7590M	1.0	7.425G - 7.755G	CW	900	.11			KLR	OS	MT	WA	
109#	TV2213A	7600M	1.0	7.425G - 7.750G	CW	775	.08			KLR	OS	EM	WA	.77
110#	R9655	7675M	2.2	7.550G - 7.800G	CW	1200	.14			KLR	OS	FM	WA	2.63

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	MXK66	7800M	.10	7.100G - 8.500G	CW	500	.05			KLR	OS	MT	CO	
2#	K366J	7800M	1.2	7.700G-7.900G	CW	750	80m			KLR	OS	MT	WA	550m
3#	K367J	7800M	1.2	7.700G-7.900G	CW	750	80m			KLR	OS	MT	WA	750m
4#	8V308	7890M	.70	7.725G - 8.055G	CW	900	.11			KLR	OS	MT	WA	
5#	8V438	7890M	.70	7.725G - 8.055G	CW	900	.11			KLR	OS	MT	WA	
6#	YK1070	7925M	.50	7.750G - 8.100G	CW	775	.08			KLR	AM	MT	WA	.75
7#	YK1140	7925M	1.2	7.750G - 8.100G	CW	775	.08			KLR	OS	MT	WA	.51
8#	8V313	7.96G	1.0	7.425G-8.5G	CW	800	110m			KLR	OS	MT	WA	
9	TK753	8075M	100m	7.750G-8.400G	CW	300	25m			KLR	OS	MT	WA	50m
10	VA215L	8200M	.10 †	7.700G - 8.700G	CW	300	.04			KLR	OS	MT	WA	1.4
11#	R9501	8.35G	35m	5.0G-11.7G	CW	370	55m			KLR	OS		WA	63m
12	MXK37	8500M	.018 †	8.000G - 9.000G	CW	200	.07			KLR	OS	MT	WA	
13#	YK1045	8500M	.04	8.850G - 9.350G	CW	350	.04			KLR	OS	MT	CO	
14#	YK1042	8500M	.06	8.100G - 8.900G	CW	400	.06			KLR	AM	MT	WA	.31
15#	VA242A	8600M	.50 †	8.500G - 8.700G	CW	525	.066			KLR	OS	MT	WA	.50
16#	723A#1	8702M	20m		CW	150	32m			KLR	OS	MT	CO	143m
17#	K3001	8750M	.07	8.500G - 9.000G	CW	350	.05			KLR	OS	MT	WA	.40 *
18	MXK28	8750M	.50 †	8.000G - 9.500G	CW	500				KLR	OS	FF	WA	
19#	VC722D	8780M	500 †	8.780G	CW	500	70m			KLR	OS	FF	WA	370m
20#	VA242B	8800M	.50 †	8.700G - 8.900G	CW	525	.066			KLR	OS	MT	WA	.50
21#	VC722E	8800M	500m†	8.800G	CW	500	70m			KLR	OS	FF	WA	370m
22#	VC722C	8820M	500m†	8.820G	CW	500	70m			KLR	OS	FF	WA	370m
23	VA201L	8825M	.07	8.700G - 8.950G	CW	300	.045			KLR	OS	MT	WA	.37
24#	K308	8850M	.04	8.800G - 8.900G	CW	400	.05			KLR	OS	MT	WA	50
25	TK115	8.9G	50m	8.5G-9.3G	CW	300				KLR	OS	TT	CO	500m
26	MXK23	9000M	.015 †	8.500G - 9.500G	CW	300				KLR	OS	MT	WA	.40
27	ZV1011A	9000M	20m†	7.000G-11.000G	CW	1250	25m			KLR*∆	OS	SE	WC	120m§
28#	K3020A	9000M	45m	8.740G-9.260G	CW	350	27.5m			KLR	OS	MT	WA	.370
29#	YK1041	9000M	.06	8.600G - 9.400G	CW	400	.06			KLR	AM	MT	WA	.31
30	MXK63	9000M	.50	8.400G - 9.600G	CW	500	.07			KLR	OS	MT	CO	
31#	VA242C	9000M	.50 †	8.900G - 9.100G	CW	525	.066			KLR	OS	MT	WA	.50
32#	M4645	9.05G	20m	8.5G-9.6G	CW	350	37m			KLR	OS	MT	WA	190m
33	MXK58	9050M	.02	8.500G - 9.600G	CW	300	.045			KLR	OS	MT	CO	
34	TK59/6845	9050M	20m	8.500G - 9.600G	CW	300	1.3			KLR	OS	TT	CO	
35	TK62/6116	9050M	20m	8.500G - 9.600G	CW	300	1.3			KLR	OS	TT	CO	
36	TK76/6940	9050M	20m	8.500G - 9.600G	CW	300	1.3			KLR	OS	TT	CO	
37	TK106/8460	9050M	20m	8.500G - 9.600G	CW	300	.45			KLR	OS	MT	CO	
38	TK115/6116	9050M	20m	8.500G - 9.600G	CW	300	1.3			KLR	OS	TT	CO	
39	TK126/7787	9050M	20m	8.500G - 9.600G	CW	300	.45			KLR	OS	MT	CO	
40#	K3078	9050M	35m	8.50G-9.60G	CW	350	50m			KLR	OS	MT	WA	.190
41#	M4645B	9.05G	45m	8.5G-9.6G	CW	350	52m			KLR	OS	MT	WA	190m
42	SRX4244	9.05G	100m	8.5G-9.6G		400	50m			KLR	OSC	MT	WA	500m
43	SRX4245	9050M	.150 †	8.500G - 9.600G	CW	400	.05			KLR	OS	MT	WA	.50
44	TK120	9050M	.15	8.500G - 9.600G	CW	400				KLR	OS	MT	CO	.50
45#	CV2792	9060M	.035	8.500G - 9.660G	CW	330	.037			KLR	OS	MT	CO	.143
46#	CV5249	9060M	.035	8.500G - 9.600G	CW	350	.052			KLR	OS	MT	WA	.309
47#	KS9-30	9060M	.035	8.500G - 9.600G	CW	350	.052			KLR	OS	MT	WA	.30
48#	2K25/KS9-20A	9080M	.02 †	8.500G - 9.660G	CW	300 ∅	.032 ∅			KLR	OS	MT	CO	.143
49	JAN6116	9080M	20m†	8.500G-9.660G	CW	350	32m			KLR	OS	TT	WC	
50	TK127-2K25	9.080G	20m†	8.500G-9.660G	CW	330	37m			KLR	OS	MT	CO	135m
51#	KS9-20A	9.08G	30m	8.5G-9.66G	CW	330	37m			KLR	OS	MT	WA	132m
52	8460	9080M	.04	8.500G - 9.660G	CW	300				KLR	OS	MT	CO	.50
53	TK76∆	9080M	.05	8.500G - 9.660G		300				KLR	OS	TT	CO	.50
54	TK112	9080M	.05	8.500G - 9.660G	CW	300				KLR	OS	TT	CO	.50
55#	CV1795	9100M	.025	8.702G - 9.548G	CW	330	.032			KLR	OS	MT	CO	.143
56#	723A/B/KS9-20	9125M	.03	8.702G - 9.548G	CW	330	.037			KLR	OS	MT	CO	
57#	723B	9125M	40m	8.702G-9.548G	CW	330	37m			KLR	OS	MT	CO	143m
58#	TV152C	9175M	.004	9.175G	CW	350	.06			KLR		FF		.154
59	R9538P	9200M	.06	9.100G - 9.300G	CW	370	.055			KLR	OS	MT	WA	.75
60#	VA242D	9200M	.50 †	9.100G - 9.300G	CW	525	.066			KLR	OS	MT	WA	.50
61	MXK31	9205M	.62 †	9.160G - 9.250G	CW	500				KLR	OS		WA	
62	7787	9250M	.03	8.500G - 10.00G	CW	300	.025			KLR	OS	MT	CO	
63#	CV6195	9250M	.03	9.160G - 9.340G	CW	275				KLR	AM	MT	WA	
64#	YK1046	9250M	35m	9.16G-9.34G	CW	350	45m			KLR	OS	MT	WA	202m
65#	K3002	9250M	.07	9.000G - 9.500G	CW	350	.05			KLR	OS	MT	WA	.40
66	MXK64	9250M	.20	8.500G - 11.00G	CW	400	.05			KLR	OS	MT	CO	
67	MXK67	9250M	.50	8.500G - 10.00G	CW	500	.07			KLR	OS	MT	CO	
68	V58	9250M	.60	8.500G - 10.00G	CW	500	.07			KLR	OS	MT	WA	.37
69#	K350	9250M	1.2	8.500G - 10.00G*	CW	1100	.13			KLR	OS	MT	WA	.40
70	MXK19	9250M	35 †	8.500G - 10.00G	CW	300				KLR	OS	MT	WA	
71	MXK38	9275M	.025	8.500G - 10.00G	CW	200	.07			KLR	OS	MT	WA	
72	MXK73	9300M	.009	9.100G - 9.500G	CW	175	.02			KLR	OS	MT	CO	
73	MXK52	9300M	.01	9.100G - 9.500G	CW	175	.02			KLR	OS	MT	CO	
74#	YK1040	9300M	.055	9.100G - 9.500G	CW	350	.045			KLR	OS	MT	WA	.25
75	MXK44	9300M	.10	8.500G - 10.00G	CW	350	.06			KLR	OS	MT	WA	
76	MXK43	9300M	.50 †	8.500G - 10.00G	CW	500	.06			KLR	OS	MT	WA	
77#	K364	9.345G	40m	9.295G-9.395G	CW	350	35m			KLR	OS	MT	WA	500m
78#	KS9-20M/2K25	9.367G	20m	9.330G-9.405G	CW	250 ∅	32m			KLR	OS	MT	CO	140m
79#	K305	9375M	.025	9.250G - 9.500G	CW	400	.05			KLR	OS	MT	WA	.50 §
80	MXK29	9395M	.03 †	9.375G - 9.415G	CW	250				KLR	OS		WA	
81#	TV203H	9400M	.012 *	9.250G - 9.550G	CW	350	.052			KLR			WA	.375
82#	KS9-20F	9.400G	25m	9.300G-9.500G	CW	330	37m			KLR	OS	MT	CO	140m
83	R9539P	9400M	.06	9.300G - 9.500G	CW	370	.055			KLR	OS	MT	WA	.75
84#	VA242E	9400M	.50 †	9.300G - 9.500G	CW	525	.066			KLR	OS	MT	WA	.50
85#	CV9334	9408M	.03	9.320G - 9.500G	CW	330	.037			KLR	OS	MT	CO	.99
86	K3020	9450M	.045	9.350G - 9.550G	CW	350	.027			KLR	OS	MT	WA	.37
87#	KS9-40G	9450M	45m	9.35G-9.55G	CW	350	45m			KLR	OS	MT	WA	287m
88#	K3003	9450M	.055	9.350G - 9.550G	CW	350	.035			KLR	OS	MT	WA	.30
89	SRX4241	9500M	.04	8.500G - 10.50G	CW	300	.034			KLR	OS	MT	WA	.50
90	MXK24	9500M	.05 †	8.500G - 10.50G	CW	300				KLR	OS	MT	WA	
91	MXK24A	9500M	.05 †	8.500G - 10.50G	CW	300				KLR	OS	MT	WA	
92	SRX92	9500M	.05	8.500G - 10.50G	CW	300	.034			KLR∆	OS	MT	WA	.28
93	MXK25	9500M	.12 †	8.500G - 10.50G	CW	350				KLR	OS	MT	WA	
94#	723A#2	9548M	20m		CW	200	32m			KLR	OS	MT	CO	143m
95	TV2223	9600M	.05 †	9.200G - 10.00G	CW	300				KLR	OS	MT	WA	.43
96	R9540P	9600M	.06	9.500G - 9.700G	CW	370	.055			KLR	OS	MT	WA	.75
97#	VA242F	9600M	.50 †	9.500G - 9.700G	CW	525	.066			KLR	OS	MT	WA	.50
98#	YK1043	9700M	.06	9.300G - 10.10G	CW	400	.06			KLR	AM	MT	WA	.31
99	CV217	9725M	.025	9.550G - 9.900G	CW	1350	.10			KLR	OS	MT	WA	.063
100#	KRN3/1	9725M	.025	9.550G - 9.900G	CW	1500	.01			KLR	OS	SR	WA	.63
101	MXK26B	9750M	.10 †	7.100G - 12.40G	CW	500				KLR	OS	MT	WA	
102	MXK30	9750M	.50 †	8.500G - 11.00G	CW	500				KLR	OS		WA	
103	R9541P	9800M	.06	9.700G - 9.900G	CW	370	.055			KLR	OS	MT	WA	.75
104#	VA242G	9800M	.50 †	9.700G - 9.900G	CW	525	.066			KLR	OS	MT	WA	.50
105#	VC722B	9830M	500m†	9.830G	CW	500	70m			KLR	OS	FF	WA	370m
106	MXK42	9850M	.30	8.200G - 11.50G	CW	500	.07			KLR	OS	MT	WA	
107	MXK41	9850M	.60	8.200G - 11.50G	CW	500	.07			KLR	OS	MT	WA	
108	V55	9850M	.60	8.200G - 11.50G	CW	500	.07			KLR	OS	MT	WA	.37
109	MXK56	9920M	.50	9.870G - 9.970G	CW	500	.066			KLR	OS	MT	CO	
110#	VA242H	9920M	.50 †	9.820G - 10.02G	CW	525	.066			KLR	OS	MT	WA	.50

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	MXK60	9950M	.50	9.750G - 10.15G	CW	500	.07			KLR	OS	MT	CO	
2	R9542P	10000M	.06	9.900G - 10.10G	CW	370	.055			KLR	OS	MT	WA	.75
3	SRX5300	10000M	.50 †	9.900G - 10.10G	CW	500	.07			KLR	OS	MT	WA	.50
4	VA288G	10.1G	100m	9.9G-10.3G	CW	450	70m			KLR	OS	MT	WA	
5	SRX53001	10.125G	500	10.000G-10.250G	CW	550	70			KLR	OS	MT	WA	500m
6#	TV210C	10155M	.03 †	10.03G - 10.28G	CW	350	.05			KLR	OS	MT		.352
7#	TV2219	10200M	.10 †	9.500G - 10.90G	CW	450	.04			KLR	OS	MT	WA	.33
8	VA266B	10200M	.10 †	9.500G - 10.90G	CW	350	.036			KLR	OS	MT	WA	.37
9#	VA242J	10200M	.50 †	10.10G - 10.30G	CW	525	.066			KLR	OS	MT	WA	.50
10	MXK26	10250M	.10 †	8.100G - 12.40G	CW	500				KLR	OS	MT	WA	
11	SRX4610	10300M	.50	8.200G - 12.40G	CW	500	.07			KLR	OS	MT	WA	.44
12	SOX2395	10300M	20	9.500G - 11.00G	CW	5700	.05			KLR2	OS	FF	WA	1.4
13	VA210K	10350M	.01 †	10.20G - 10.50G	CW	300	.035			KLR	OS	MT	WA	.38
14	VA288F	10.35G	40m	10G-10.7G	CW	350	55m			KLR	OS	MT	WA	
15	R9543P	10350M	.06	10.10G - 10.60GØ	CW	370	.055			KLR	OS	MT	WA	.75
16#	YK1044	10350M	.06	10.10G - 10.60G	CW	400	.06			KLR	AM	MT	WA	.31
17	JAN7071	10375M	.10	10.25G - 10.50G		350	.05			KLR			WA	
18#	VA242V	10400M	.50 †	10.30G - 10.50G	CW	525	.066			KLR	OS	MT	WA	.50
19	MXK34	10500M	.07	9.800G - 11.20G	CW	400	.07			KLR	OS	MT	WA	
20	MXK62	10500M	.07	9.800G - 11.20G	CW	400	.05			KLR	OS	MT	CO	
21	VA320	10.525G	40m	10.5G-10.55G	CW	300	37m			KLR	OS	FF	WA	
22#	VC703A	10600M	.15 †	10.55G - 10.65G	CW	400	.045			KLR	OS	MT	WA	.50
23	SRX4550	10600M	.20	10.60G	CW	400	.036			KLR	OS	MT	WA	.44
24#	VA242L	10600M	.50 †	10.50G - 10.70G	CW	525	.066			KLR	OS	MT	WA	.50
25#	LD788	10600M	.55	10.40G - 10.80G	CW	600	.07			KLR	OS	MT	WA	
26#	11V71	10600M	1.7	10.40G - 10.80G	CW	1300	.07			KLR	OS	MT	WA	
27	MXK72	10650M	.50	10.45G - 10.85G	CW	500	.07			KLR	OS	MT	CO	
28	MXK68	10750M	.50	10.00G - 11.50G	CW	500	.07			KLR	OS	MT	CO	
29	R9544P	10800M	.06	10.60G - 11.00GØ	CW	370	.055			KLR	OS	MT	WA	.75
30#	VA242M	10800M	.50 †	10.70G - 10.90G	CW	525	.066			KLR	OS	MT	WA	.50
31	VA266E	10.9G	100m	10.4G-11.4G	CW	350	50m			KLR	OS	MT	WA	370m
32	MXK51	11000M	.02	10.50G - 11.50G	CW	200	.025			KLR	OS	MT	CO	
33	MXK40	11000M	.13	10.50G - 11.50G	CW	400	.07			KLR	OS	MT	WA	
34	SRX4840	11000M	.20	10.92G - 11.08G	CW	475	.065			KLR	OS	MT	WA	.50
35#	VA242N	11000M	.50 †	10.90G - 11.10G	CW	525	.066			KLR	OS	MT	WA	.50
36	MXK20	11000M	40 †	11.00G	CW	300				KLR	OS		WA	
37#	LD805	11100M	1.3	10.50G - 11.70G	CW	900	.075			KLR	OS	MT	WA	.49
38	V53C	11200M	.04 †	10.70G - 11.70G	CW	400	.032			KLR	OS	MT	WA	.37
39	MXK46	11200M	.055	10.70G - 11.70G	CW	400	.032			KLR	OS	MT	WA	
40#	11V53	11200M	.07	10.70G - 11.70G	CW	350	.042			KLR	OS	MT	WA	
41	VA266D	11.2G	150m	10.6G-11.8G	CW	500	70m			KLR	OS	MT	WA	370m
42	VA317A	11.2G	400m	10.7G-11.7G	CW	600	75m			KLR	OS	MT	WA	
43#	11V54B	11200M	.45	10.70G - 11.70G	CW	525	.075			KLR	OS	MT	WA	
44#	LD670	11200M	1.8	10.70G - 11.70G	CW	1300	.07			KLR	OS	MT	WA	.992
45	TK111	11.23G	100m	9.66G-12.8G	CW	300				KLR	OS	FF	WA	500m
46#	TV154	11350M	.05 †	10.50G - 12.20G	CW	400	.05			KLR	OS	MT	WA	
47	MXK35	11350M	.15	10.50G - 12.20G	CW	400	.07			KLR	OS	MT	WA	
48	MXK36	11350M	.15	10.40G - 12.30G	CW	400	.07			KLR	OS	MT	WA	
49	V54	11.35G	150m	10.5G-12.2G	CW	450	70m			KLR	OS	MT	WA	370m
50	MXK27	11500M	.10 †	10.20G - 12.80G	CW	500				KLR	OS		WA	
51	YK1090	11500M	.40	10.50G - 12.20G		450	.07			KLR	OS	MT	WA	.44
52	YK1091	11500M	.40	10.50G - 12.20G		450	.07			KLR	OS	MT	WA	.44
53	SRX4959	12000M	.016 †	11.50G - 12.50G†	CW	365	.043			KLR	OS	FF	WA	2.7
54	MXK69	12000M	.50	11.50G - 12.50G	CW	500	.07			KLR	OS	MT	CO	
55	MXK55	12200M	.40	11.70G - 12.70G	CW	550	.075			KLR	OS	MT	WA	
56	MXK45	12750M	.07	10.00G - 15.50G	CW	750	.042			KLR	OS	MT	WA	
57	SRU4940	13000M	.008 †	12.50G - 13.50G†	CW	325	.03			KLR	OS	FF	WA	2.0
58#	K343	13250M	.05	12.00G - 14.50G	CW	400	.04			KLR	OS	MT	WA	.25
59#	K3101	13250M	80m	12.000G-14.500G	CW	400	40m			KLR	OS	MT	WA	.250
60	MKK14	13250M	.45	11.00G - 15.50G†	CW	500	.065			KLR	OS	MT	WA	
61	VA281	13300M	1.0 †	13.30G	CW	1000	.04			KLR	OS	FF	WA	
62	SRU4500	13325M	.07	13.32G	CW	300	.028			KLR	OS	MT	WA	.28
63	SRU4474	13325M	.15	13.32G	CW	350	.032			KLR	OS	MT	WA	.31
64	SRU4476	13.325G	400m	13.275G-13.375G	CW	500	70			KLR	OS	MT	WA	3.0
65	SRU4475	13325M	.450	13.31G - 13.33G	CW	500	.055			KLR	OS	MT	WA	.50
66	SRU4473	13325M	.50	13.32G	CW	500	.045			KLR	OS	MT	WA	.31
67	VA92C	13.45G	140m†	12.4G-14.5G	CW	600	66m			KLR	OS	MT	WA	370m
68	VA286A	13500M	.04 †	13.50G	CW	300	.055			KLR	OS	MT	WA	
69	MKK35	13500M	.40	13.45G - 13.55G	CW	600	.06			KLR	OS	MT	WA	
70#	R9624	13700M	.10	12.40G - 15.00G	CW	2200	.015			KLR	OS	MT	WA	.91
71	SRU4941	14000M	.008 †	13.50G - 14.50G†	CW	325	.03			KLR	OS	FF	WA	2.0
72	SRU4942	14000M	.06 †	13.94G - 14.06G	CW	400	.04			KLR	OS	MT	WA	.40
73	SOU5080	14000M	1.0	14.00G	CW	950	.065			KLR2	OS	FF	WA	.50
74#	K3101M	14.015G	80m		CW	400	40m			KLR	OS	FF	WA	250m
75	SRU4380	14250M	.10	12.50G - 16.00G	CW	400	.045			KLR	OS	MT	WA	.25 Δ
76	VA92K	14250M	.25 †	13.50G - 15.00G	CW	600	.066			KLR	OS	MT	WA	
77	SRU4472	14400M	.60	14.40G	CW	540	.05			KLR	OS	FF	WA	.31
78	MKK36	14450M	.275	12.40G - 18.50G†	CW	750	.028			KLR	OS	FF	WA	
79#	15V64	14900M	.20	14.40G - 15.40G	CW	625	.07			KLR	OS	MT	WA	
80	MKK33	14900M	.20	14.40G - 15.40G	CW	500	.045			KLR	OS	MT	WA	
81#	15V20	14.9G	250m	14.25G-15.55G	CW	600	70m			KLR	OS	MT	WA	
82	SOU4090	15.487G	300m		CW	995	75			KLR	OS	FF	WA	2.0
83	TK113	15500M	15m	15.40G - 15.60G	CW	300	.50			KLR	OS	MT	WA	
84	VA286T	15500M	.40 †	15.40G - 15.60G	CW	525				KLR	OS	MT	WA	.31
85	SRU4439	15700M	.04	15.70G	CW	250	.024			KLR	OS		WA	.45
86#	K346	15750M	.045	14.50G - 17.00G	CW	400	.04			KLR	OS	MT	WA	.25
87#	K3102	15750M	45m	14.500G-17.000G	CW	400	40m			KLR	OS	MT	WA	.250
88	SRU5240	16000M	.015 †	15.00G - 17.00G	CW	300	.035			KLR	OS	MT	WA	.40
89	6994	16000M	.02	15.80G - 16.20G	CW	300	.045			KLR	OS	MT	WA	
90	MKK24	16000M	.02	15.80G - 16.20G	CW	300	.035			KLR	OS	MT	WA	
91	MKK28	16000M	.02	15.80G - 16.20G	CW	300	.045			KLR	OS	MT	WA	
92	SRU266	16000M	.15 †	15.00G - 17.00G	CW	205	.025			KLRΔ	OS	MT	WA	.50
93	VA275H	16150M	.15	15.80G - 16.50G	CW	300	.045			KLR	OS		WA	.37
94	SRU4435	16175M	.03	15.80G - 16.50G	CW	300	.03			KLR	OS	MT	WA	.28
95	SRU5110	16220M	.006 †	16.22G	CW	300	.027			KLR	OS	MT	WA	.80
96	SRU410	16300M	.002 †	15.50G - 17.10G	CW	205	.025			KLRΔ	OS	MT	WA	.40
97	SRU4102	16300M	.25	15.50G - 17.10G	CW	450	.06			KLR	OS	MT	WA	.40
98	SRU4103	16300M	.25 †	15.50G - 17.10G	CW	450	.05			KLR	OS	MT	WA	.50
99	MKK24A	16350M	.02	16.25G - 16.50G	CW	300	.045			KLR	OS	MT	WA	
100#	TV94	16500M	.02	16.00G - 17.00G	CW	350	.045			KLR			WA	253
101	VC712A	16500M	.02 †	16.00G - 17.00G	CW	300	.035			KLR	OS	MT	WA	.50
102	SRU4432	16500M	.08	16.00G - 17.00G	CW	300	.03			KLR	OS	MT	WA	.28
103	SRU4480	16500M	.25 †	16.00G - 17.00G	CW	500	.045 Ø			KLR	OS	MT	WA	.56
104	SRU4850	16500M	.30	16.40G - 16.60G	CW	475	.055			KLR	OS	MT	WA	.28
105	SRU4434	16555M	.04	16.44G - 16.67G	CW	250	.025			KLR	OS	MT	WA	.28
106#	K3102M	16.900G	45m	16.500G-17.300G	CW	400	40m			KLR	OS	MT	WA	250m
107	SRU4438	17000M	.03	16.50G - 17.50G	CW	330	.032			KLR	OS	MT	WA	.45
108	VA240J	17500M	.50	17.47G - 17.52G	CW	800	.026			KLR	OS	MT	WA	.25
109	MKK18	17750M	.10	17.00G - 18.50G	CW	700	.005			KLR	AM	MT	WA	
110#	LD764	18150M	.23	17.00G - 19.30G†	CW	625	.06			KLR	OS	MT	WA	

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	MKK10	18232M	.10 †	18.13G - 18.33G	CW	700				KLR	OS	FF	WA	
2	TK118	18900M	.03	12.80G - 17.00G	CW	300				KLR	OS	MT	WA	.50
3	TK119	18900M	.03	12.80G - 17.00G	CW	300				KLR	OS	MT	WA	.50
4	TK117	18900M	.20	12.80G - 17.00G	CW	500				KLR	OS	MT	WA	.50
5#	K3037	21000M	.50 †	18.00G - 24.00GØ	CW	3200	.035			KLR	OS	MT	WA	1.31
6#	K3036	21000M	.75 †	18.00G - 24.00GØ	CW	2200	.02			KLR	OS	MT	WA	1.31
7	VA254	22250M	.15 †	18.00G - 26.50GØ	CW	925	.035			KLR	OS	MT	WA	.22
8#	KL23	23G	90m	22G-24G	CW	550	50m			KLR	OS	MT	WA	
9	2K33	23500M	.04	22.00G - 25.00G	CW	2300	.009			KLR	OS	MT	WA	1.1
10	MKK32	23500M	.10	22.00G - 25.00G	CW	400	.04			KLR	OS	MT	WA	
11#	KA243	23.5G	500m	22G-25G	CW	2.0k	40m			KLR	OS	MT	WA	
12#	VA98H	23780M	.10	23.60G - 23.95G	CW	400	.045			KLR	OS	MT	WA	.25
13#	VA98N	23850M	.10 †	23.80G - 23.90G	CW	400	.04			KLR	OS	MT	WA	.25
14	2K50	23.984G	8.5m	23.216G-24.751G	CW	330	28m			KLR	OS	TT	WA	500m
15	6541	24G	8.5m	23.250G-24.750G	CW	330	30m			KLR	OS	MT	WA	270m
16	TK4/2K50	24000M	14m	23.50G - 24.50G	CW	300	.75			KLR	OS	TT	WA	
17#	VA98G	24000M	.025	23.60G - 24.40G	CW	400	.045			KLR	OS	MT	WA	.25
18	VA98E	24000M	.03	23.60G - 24.40G	CW	375	.045			KLR	OS	MT	WA	.25
19#	24V20	24G	40m	22.5G-25.5G	CW	650	42m			KLR	OS	MT	WA	
20	MKK19	24000M	.07	23.60G - 24.40G	CW	375	.04			KLR	OS	MT	WA	
21#	KL24	24G	90m	23G-25G	CW	550	50m			KLR	OS	MT	WA	
22	VA98P	24000M	.09 †	23.70G - 24.30G	CW	375	.04			KLR	OS	MT	WA	.25
23	SRK4640	24000M	.10 †	23.00G - 25.00G	CW	450	.05			KLR	OS	EM	WA	.31
24	SRK4781	24225M	.55	23.50G - 25.00G	CW	600	.06			KLR	OS	MT	WA	.50
25	SRK4780	24225M	.60	23.50G - 25.00G	CW	600	.07			KLR	OS	MT	WA	.50
26	SRK4641	24500M	.30	24.30G - 24.70G	CW	450	.05			KLR	OS	MT	WA	.30
27	VA98R	25000M	.10	24.98G - 25.02G	CW	375	.04			KLR	OS	MT	WA	.25
28	SRK4761	25700M	.08	25.70G	CW	400	.043			KLR	OS	FF	WA	.60
29#	R9547	25850M	.08	24.00G - 27.70G	CW	2200	.015			KLR	OS	MT	WA	.813
30#	30V150	30000M	.08	29.50G - 30.50G	CW	2000	.014			KLR	OS	FF	WA	
31#	30V16	30000M	.25	27.50G - 32.50G	CW	2000	.03			KLR	OS	FF	WA	
32	30BT	30000M	.30	27.00G - 32.00G	CW	2300	.035			KLR	OS	MT	WA	1.25
33	30BT/A	30000M	.40	27.00G - 32.00G	CW	2300	.035			KLR	OS	MT	WA	1.25
34	SRV5270	30500M	.100	30.40G - 30.60G	CW	500	.055			KLR	OS	MT	WA	.40
35#	K3040	30500M	.50 †	29.00G - 32.00GØ	CW	2700	.03			KLR	OS	MT	WA	.63
36	SRV4403	30500M	.50	30.50G	CW	700	.09			KLR	OS	FF	WA	.44
37#	31V151	31000M	.08	30.50G - 31.50G	CW	2000	.014			KLR	OS	FF	WA	
38#	32V152	32000M	.08	31.50G - 32.50G	CW	2000	.014			KLR	OS	FF	WA	
39#	R9651	32500M	.06	31.25G - 33.70G	CW	2200	.015			KLR	OS	MT	WA	.813
40#	33V153	33000M	.08	32.50G - 33.50G	CW	2000	.014			KLR	OS	FF	WA	
41	SRV4405	33000M	.10	32.90G - 33.10G	CW	475	.05			KLR	OS	MT	WA	.63 △
42#	33V11	33G	150m	30G-35G	CW	2.0k	25m			KLR	OS	MT	WA	
43	SRV4408	33.2G	15	33.15G-33.25G	2.3m	3.0k	70m			KLR	OS	MT	WA	440m
44	VA284	33250M	.10	26.50G - 40.00G†	CW	900	.03			KLR	OS	MT	WA	.25
45	SRV4409	33.32G	15		2.0	3.500k	750m			KLR	OS	FF	WA	1.0
46	DX184	33500M	.10	31.00G - 36.00G	CW	2250	.015			KLR	OS	MT	WA	3.3
47#	34V154	34000M	.08	33.50G - 34.50G	CW	2000	.014			KLR	OS	FF	WA	
48#	35V30	34500M	.04	32.00G - 37.00G	CW	1000	.025			KLR	OS	FF	WA	.882
49	JANSRV38	34800M	.01 †	34.00G - 35.60G		425	.065			KLR		MT	WA	
50#	TV97	34800M	.01 †	34.00G - 35.60G	CW	400	.04			KLR	OS	MT		.20
51	MKK21	34800M	.07	34.00G - 35.60G	CW	400	.045			KLR	OS	MT	WA	
52	SRV5130	35000M	.01 †	35.00G	CW	500	.06			KLR	OS	FF	WA	1.0
53#	35V20	35G	20m	33G-37G	CW	625	42m			KLR	OS	MT	WA	
54	SRV4450	35000M	.025	30.00G - 40.00GØ	CW	450	.05			KLR	OS	MT	WA	3.7
55#	35V61	35000M	.03	34.75G - 35.25G	CW	1000	.025			KLR	OS	FF	WA	.216
56#	35V155	35000M	.08	34.50G - 35.50G	CW	2000	.014			KLR	OS	FF	WA	
57#	KH35	35G	140m	33G-37G	CW	1.1k	35m			KLR	OS	MT	WA	
58#	35V51	35000M	.15	34.75G - 35.25G	CW	2200	.03			KLR	OS	FF	WA	.216
59	35BT	35000M	.30	32.00G - 37.00G	CW	2300	.035			KLR	OS	MT	WA	1.25
60	35BT/A	35000M	.40	32.00G - 37.00G	CW	2300	.035			KLR	OS	MT	WA	1.25
61	VA239	35000M	.40 †	34.00G - 36.00G*	CW	2500	.03			KLR	OS	FF	WA	.41
62	SOV2203	35000M	1.5	35.00G	CW	1750	.085			KLR2	OS	FF	WA	.80 △
63#	36V156	36000M	.08	35.50G - 36.50G	CW	2000	.014			KLR	OS	FF	WA	
64	SRV4406	38500M	.04	38.40G - 38.60G	CW	475	.05			KLR	OS	MT	WA	.44
65	SRV4407	39000M	.275	39.00G	CW	700	.085			KLR	OS	FF	WA	.44
66	SRV4402	39750M	.20	39.75G	CW	700	.085			KLR	OS	FF	WA	.44
67	SRV4404	39750M	.25	39.75G	CW	700	.09			KLR	OS	FF	WA	.44
68	40BT	40000M	.30	37.00G - 42.00G	CW	2300	.035			KLR	OS	MT	WA	1.25
69	40BT/A	40000M	.70	37.00G - 42.00G	CW	2300	.035			KLR	OS	MT	WA	1.25
70#	VKQ2417C	40000M	20 †	30.00G-50.00G	CW	8500	150m			KLR	OS	MT		15
71#	VKQ2417A	40000M	50 †	30.00G-50.00G	CW	8500	150m			KLR	OS	FF	WA	15
72#	VKQ2417B	40000M	50 †	30.00G-50.00G	CW	8500	150m			KLR	OS	FF		15
73	45BT	45000M	.35	42.00G - 49.00G	CW	2700	.035			KLR	OS	MT	WA	1.25
74	45BT/A	45000M	.60	42.00G - 49.00G	CW	2700	.038			KLR	OS	MT	WA	1.25
75	47BT	47000M	.40	43.00G - 51.00G	CW	2700	.038			KLR	OS	MT	WA	1.25
76	47BT/A	47000M	.80	43.00G - 51.00G	CW	2700	.038			KLR	OS	MT	WA	1.25
77#	KA501	50G	150m	46G-54G	CW	2.7k	30m			KLR	OS	MT	WA	
78	50BT	50000M	.40	46.00G - 54.00G	CW	2700	.038			KLR	OS	MT	WA	1.25
79	50BT/A	50000M	.80	46.00G - 54.00G	CW	2700	.038			KLR	OS	MT	WA	1.25
80	55BT	55000M	.175	51.00G - 59.00G	CW	2700	.038			KLR	OS	MT	WA	1.25
81	55BT/A	55000M	.40	51.00G - 59.00G	CW	2700	.038			KLR	OS	MT	WA	1.25
82	60BT	60000M	.12	55.00G - 65.00G	CW	2800	.038			KLR	OS	MT	WA	1.25
83	60BT/A	60000M	.20	55.00G - 65.00G	CW	2800	.038			KLR	OS	MT	WA	1.25
84#	VRE2104A	61.5G	50m	43G-80G△	CW	900	28m			KLR	OS	MT	WA	1.0
85	65BT	65000M	.07	60.00G - 70.00G	CW	2800	.038			KLR	OS	MT	WA	1.25
86	65BT/A	65000M	.13	60.00G - 70.00G	CW	2800	.038			KLR	OS	MT	WA	1.25
87#	VRE2103B	65G	150m†	50G-80G△	CW	2.5k	20m			KLR	OS	MT	WA	810m
88	JAN8182	69750M	.015 †	68.75G - 70.75G	CW	1400	.04			KLR	OS	MT	WA	
89	DX251	70000M	.02	67.00G - 73.00G	CW	2500	.018			KLR	OS	MT	WA	
90	70BT	70000M	.07	65.00G - 70.00G	CW	2800	.038			KLR	OS	MT	WA	1.25
91	DX151	70G	100m	67G-73G	CW	2.5k	18m			KLR	OS	MT	WA	1.0
92	DX250	70000M	.10	67.00G - 73.00G	CW	2500	.018			KLR	OS	FF	WA	
93	DX279	70000M	.10	67.00G - 73.00G	CW	2700	.022			KLR	OS	MT	WA	
94	70BT/A	70000M	.13	65.00G - 70.00G	CW	2800	.038			KLR	OS	MT	WA	1.25
95#	R9653	75000M	.02	65.00G - 85.00G†	CW	2500	.03			KLR	OS	MT	WA	.94
96#	75V10	75G	30m	70G-80G	CW	2.7k	25m			KLR	OSC	MT	WA	
97	75BT	75000M	.07	70.00G - 80.00G	CW	2800	.038			KLR	OS	MT	WA	1.25
98	75BT/A	75000M	.12	70.00G - 80.00G	CW	2800	.038			KLR	OS	MT	WA	1.25
99#	KA801	80G	150m	75G-85G	CW	2.8k	30m			KLR	OS	MT	WA	
100#	VRB2114A1	81G	50m	80G-82G△	CW	900	28m			KLR	OS	MT	WA	1.0
101	197H	93.75G	1.0k	92.75G-94.75G	500u	20k	4.3			KLRØ	OS			25 △
102	DX242	95000M	.05	90.00G - 100.0G	CW	2500	.018			KLR	OS	MT	WA	1.0
103	DX264	105G	.05	100.0G - 110.0G	CW	2500	.018			KLR	OS	MT	WA	1.0
104	DX237	115G	.04	110.0G - 120.0G	CW	2600	.017			KLR	OS	MT	WA	1.0
105	DX247	145G	.003 †	140.0G - 150.0G	CW	2600	.016			KLR	OS	MT	WA	1.0
106	SMS27	265M	.30	2.600G - 2.700G	CW	1250	.025			KL2△	FQX	MT	CO	11
107#	K397	8800M	1.2	8.795G - 8.805G	CW	1100	.08			KL2	OS	FF	WA	.40
108	VA514K	9200M	2.0		CW	4200	35			KL2	OS		WA	1.0
109	VA508W	9900M	5.0		CW	1225				KL2	OS		WA	
110	VA524	10050M	.20	9.500G - 10.60G†	CW	2200	.01			KL2	OS	MT	WA	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION 1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	TV518	10050M	2.0 †	9.500G - 10.60G	CW	4300	.03			KL2	OS			
2	MXK53	10050M	5.0	9.100G - 11.00G	CW	1350	.125			KL2	OS	MT	WA	
3#	TV516	10.050G	200	9.500G-10.600G	CW	13k	140m			KL2	OS	FF	WA	
4	VA525	10050M	200	9.500G - 10.60G†	CW	13000	.125			KL2	OS	MT	WA	
5	VA526	10050M	200	9.500G - 10.60G†	CW	13000	.125			KL2	OS	MT	WA	
6	VA527	10050M	200	9.500G - 10.60G*	CW	13000	.125			KL2	OS	FF	WA	
7	SOX2396	10125M	3.0	10.10G - 10.15G	CW	4400	.035			KL2△	OS	FF	WA	1.4
8	SOX2392	10250M	10	9.500G - 11.00G	CW	4900	.04			KL2△	OS	FF	WA	1.0
9	SOX4880	10300M	1.0 †	8.200G - 12.40G*	CW	3800	.025			KL2△	OS	FF		1.42
10	SOX239	10500M	.50	10.00G - 11.00G	CW	3100	.017			KL2△	OS	MT	WA	1.4
11	VA511	10500M	50 †	9.500G - 10.60G†	CW	11000	.08			KL2	OS	FF	WA	2.5
12	VA504C	12900M	10	12.90G	CW	2800	.075			KL2	OS	FF	WA	.56
13	8450	13300M	5.0	13.30G	CW	2300	.05			KL2	OS	FF	WA	
14	JAN8450	13.300G	5.0 †	13.295G-13.305G		2.5k	50m			KL2#	OS	MT	WA	
15	VA515A	13300M	6.0	13.30G	CW	2200	.05			KL2	OS	FF	WA	.63
16	JAN8230M	13300M	15 †	13.29G - 13.30G*	CW	3150	.08			KL2#	OS	FF	WA	
17	JAN8449	13300M	15 †	13.29G - 13.30G	CW	3150	.077			KL2	OS	FF	WA	
18	MKK11	13300M	15 †	13.29G - 13.30G	CW	3000				KL2	OS	FF	WA	
19#	VC706A	13325M	1.5 †	13.325G	CW	900	600m			KL2	OS	FF	WA	630m
20	VA504D	13.5G	15	13.5G	CW	3.0k	760m			KL2	OS	FF	WA	560m
21	SOX2394	15200M	10 △	12.40G - 18.00G*	CW	1800	175			KL2△	OS	FF		1.4
22	SOU4040	15400M	1.0 †	13.30G - 17.50G*	CW	1050	.075			KL2	OS	FF	WA	600
23	SOU408	15600M	.20	15.60G	CW	700	.041			KL2△	OS	FF	WA	1.0 △
24	VA540	16000M	50	12.00G - 20.00G	CW	5500	.15			KL2	OS		WA	
25	SOU403	16400M	1.0	16.39G - 16.40G	CW	1100	.075			KL2△	OS	FF	WA	2.0 △
26	SOU293	17500M	1.0 †	17.00G	CW	1100	.08			KL2△	OS	FF	WA	.75
27	SOU404	17500M	1.25	17.50G	CW	1025	.07			KL2	OS		WA	1.5
28	SOU5230	18.352G	10	18.2G-18.5G	CW	2.0k	100m			KL2	OSC	FF	WA	300m
29	SOK2922	21600M	.80	21.60G	CW	1450	.07			KL2△	OS	FF	WA	1.0 △
30	SOK2925	21700M	4.0	21.70G	CW	1850				KL2△	OS	FF	WA	1.0 △
31	SOK2921	24000M	.60	24.00G	CW	1200	.045			KL2△	OS	FF	WA	1.0 △
32	SOK2926	25000M	.60	25.00G	CW	1250	.048			KL2△	OS	FF	WA	1.0 △
33	SOV4130	31000M	.50	31.00G	CW	1550	.08			KL2△	OS	FF	WA	8.0
34	VA541	31650M	7.0	31.65G	CW	1800	.12			KL2△	OS		WA	
35	VA538	35000M	7.0 †	30.00G - 40.00G	CW	3500	.07			KL2	OS	FF	WA	.80
36	SOV2200	35500M	.50 †	31.00G - 40.00G*	CW	1550	.085			KL2△	OS	FF	WA	.90 △
37	SRV4401	36000M	.10	36.00G	CW	500	.055			KL2△	OS	FF	WA	.44
38	SOV2201	39500M	.25	39.50G	CW	1500				KL2△	OS	FF	WA	.90
39	6237	500M	15000	470.0M - 530.0M	CW	18000	3.0	40		KL3	AM	MT	WA	
40	6238	557M	15000	530.0M - 584.0M	CW	18000	3.0	40		KL3	AM	MT	WA	
41	6239	620M	15000	584.0M - 656.0M	CW	18000	3.0	40		KL3	AM	MT	WA	
42	6240	692M	15000	656.0M - 728.0M	CW	18000	3.0	40		KL3	AM	MT	WA	
43	6241	767M	15000	728.0M - 806.0M	CW	18000	3.0	40		KL3	AM	MT	CO	
44	6242	848M	15000	806.0M - 890.0M	CW	18000	3.0	40		KL3	AM	MT	WA	
45#	TV3K3000LQ	853M	2.0k	720M-985M	CW	9.0k	750m	30		KL3	AM	MT	CO	32 §
46#	K329	1088M	6500	962.0M - 1.213G	.065	12000	3.5	29		KL3	AM	MT	CO	39 §
47	L3486	1315M	250k†	1.250G - 1.380G	.068	45000	20	30		KL3	AM	MT	WA	200 △
48	L5096	1500M	2.2M	1.450G - 1.550G	.003	115k	87	37		KL3Ø	AM	MT	WA	450 *
49#	F2011	3.0G	50k	2.7G-3.2G*	1.0m	40k	15			KL3	OSC		WA	
50#	F2052	3.0G	60k	3.0G	3.3m	40k	15			KL3	OS	FF	CO	
51	SOC87	5.0G	4.5	4.985G-5.015G	CW	1.1k	175m			KL3*	OS	FF	CO	1.0
52	SOC86	5000M	10	4.950G - 5.050G	CW	1000	.12			KL3△	OS	FF	CO	1.0
53	VA912	5.6G	25k	5.3G-5.9G†	17m	18k	8.5	21		KL3△	AM	MT	WA	
54	VA412A	5650M	2.0	5.400G - 5.900G	CW	1000	.175	16		KL3△	AM	MT	WA	
55	SAC406	5700M	20000 †	4.400G - 6.600G	CW	20000	2.87	60		KL3Ø	AM	MT	WA	215 *
56	SAC4170	5850M	20000	5.850G	CW	20000	2.9	50		KL3Ø	AM	FF	WA	200 *
57	SAC4173	6175M	14000	5.925G - 6.425G	CW	17500	2.3	50		KL3Ø	AM	MT	WA	105 *
58	SAC4175	6390M	10000	6.390G	CW	15000	1.9	60		KL3Ø	AM	FF	WA	215 *
59	SAC417	7000M	10000 †	6.000G - 8.000G	CW	17000	2.2	60		KL3Ø	AM	MT	WA	215 *
60	VA411A	8400M	10	8.200G - 10.50G	CW	1000	.18			KL3△	AM		WA	
61	SAX418	9250M	10000 †	8.000G - 10.50G	CW	18000	2.4	50†		KL3Ø	AM	MT	WA	200 *
62	VA411	9350M	10	8.200G - 10.50G*	CW	1000	.18			KL3△	AM		WA	
63	SAX253	10250M	600	10.00G - 10.50G	CW	8750	.36			KL3†	AM	FF	WA	
64	VA401	10300M	10	8.200G - 12.40G†	CW	1500	.18	25		KL3△	AM	FF	WA	.81
65	4KM170000LA	400M	75000	300.0M - 500.0M	CW	35000	5.5	50		KL4	MT	MT	CO	196
66	8824	518M	30k	470M-566M	CW	6.0	16.4	40		KL4†	AM	FF	WA	200
67	TV893A	518M	55000	470.0M - 566.0M	CW	25100	7.95	35		KL4Ø	AM	MT	CO	240
68#	1AV80	518M	61k	470M-566M	CW	27.5k	9.0	41		KL4Ø	AM	MT	WA	440
69#	1AV40	535M	17k	460M-690M	CW	20k	3.0	36		KL4Ø	AM	MT	CO	
70	4KMV100LA	540M	25000 *	470.0M - 610.0M	CW	16000	3.8			KL4	AM	MT	CO	231
71	4KMV150LA	540M	50000	470.0M - 610.0M	CW	20000	5.4			KL4	AM	MT	CO	231
72#	F2048#	555M	50000	470.0M - 640.0M	CW	23000	6.0	40		KL4	AM	MT	CO	
73#	1V20	575M	20000	460.0M - 690.0M	CW	20000	2.6			KL4	AM	MT	CO	77.2
74	4KMP10000LF	600M	400k*	570.0M - 630.0M	.02	70000	16.5	55		KL4	AM	MT	WA	140
75	YK1003	630M	4.4k	470M-790M	CW	18.5k	2.0			KL4†	AM	MT	GO	121
76#	YK1150	630M	25k	470M-790M	CW	18k	3.1	44		KL4†	AM	MT	CO	220
77	8825	632M	30k	566M-698M	CW	6.0	16.4	40		KL4	AM	FF	WA	200
78	TV894A	632M	55000	566.0M - 698.0M	CW	25100	7.95	35		KL4Ø	AM	MT	CO	240
79	4KMV100LF	655M	25000 *	590.0M - 720.0M	CW	16000	3.8			KL4	AM	MT	CO	240
80	4KMV150LF	655M	50000	590.0M - 720.0M	CW	20000	5.4			KL4	AM	MT	CO	240
81#	YK1005	670M	11000	470.0M - 860.0M	CW	22000				KL4	AM	MT	CO	132
82	YK1000	680M	10000	400.0M - 960.0M	CW	20000	2.5	57		KL4	AM	SR		
83#	YK1004	700M	11000	610.0M - 790.0M	CW	20000				KL4	AM	MT	CO	88
84	YK1060	700M	20000	460.0M - 1.000G	CW					KL4	AM	MT	CO	
85	TV895A	789M	55000	698.0M - 890.0M	CW	25100	7.95	35		KL4Ø	AM	MT	CO	240
86#	TV4KM50000LQ	798M	10k	610M-985M	CW	20k	2.5			KL4†	AM	FM		55 §
87	4KMV100LH	805M	25000 *	720.0M - 890.0M	CW	16000	3.8			KL4	AM	MT	CO	250
88	4KMV150LH	805M	50000	720.0M - 890.0M	CW	20000	5.4			KL4	AM	MT	CO	250
89	4K50000LQ	853M	12300	720.0M - 985.0M	CW	20000	2.5	60		KL4	AM	MT	CO	53
90	VA917A	892M	10k	800M-985M		12500	2.84	36.2		KL4Ø#	AM	MT	CO	130
91	VA897A	925M	30000	890.0M - 960.0M	CW	19000	5.25			KL4Ø	AM	MT	CO	
92#	F2047	1428M	10000 †	1.428G	CW	13000	2.8	40		KL4Ø	AM	FF	WA	176
93	VA858	2050M	100k	1.700G - 2.400G†	CW	35000	10	50†		KL4Ø	AM	MT	WA	560
94	VA800C	2280M	10000	2.160G - 2.400G	CW	20000	2.5	50		KL4Ø	AM	MT	WA	
95	L5101	2304M	1000	2.298G - 2.310G	CW	6500	.37	30		KL4△	AM		CO	12
96	TV4K3SM	2755M	1000 *	2.650G - 2.860G	CW	6500	.46	45		KL4	AM	MT	CO	85
97	VA87	2.8G	2.0M	2.7G-2.9G†	1.0m	120k	70	59		KL4Ø	AM	MT	WA	300 *
98#	R9571	2875M	50000	2.700G - 3.050G	.003	30000	5.0	38		KL4	AM	MT	WA	110 *
99#	R9570	2875M	200000	2.700G - 3.050G	.002	50000	14			KL4	AM	MT	WA	110 *
100#	KA435	3.0G	5.0M△	2.7G-3.2G*	1.6m	125k	105	40		KL4Ø	AM	FF	WA	130
101#	KA436	3.0G	20M	2.7G-3.2G*	200u	270k	280	43		KL4Ø	AM	FF	WA	202
102#	R9719	3.25G	2.5k	3.0G-3.5G†	100m	12.5k	830m	45		KL4△#	AMP	MT	WA	11
103	VA834B	4700M	1000	4.400G - 5.000G	CW	8000	.50	50		KL4§	AM	MT	WA	60 △
104	VA834	4700M	1200	4.400G - 5.000G†	CW	7500	.47	41		KL4†	AM	MT	WA	52
105	8811	4700M	1.45k△	4.400G-5.000G	CW	8.5k	600m	45		KL4†	OS	MT	WA	38
106	VA877	4700M	10600	4.400G - 5.000G†	CW	15000	2.4	44		KL4Ø	AM	MT	WA	220
107	VKC7754	4.700G	12k	4.400G-5.000G		17.5k	2.3	47		KL4†	AM	MT	WA	40
108	SAC4062	4700M	15000	4.400G - 5.000G	CW	17500	2.3	50		KL4Ø	AM	MT	WA	115 *
109#	VC704A-L	5200M	5000	4.400G - 6.000G†	CW	12500	1.28	55		KL4	AM		WA	
110	VA910	5.65G	30k	5.4G-5.9G†	300m	27k	4.0	60		KL4#Ø	AM	MT	WA	125

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	VA805	6150M	2200	5.900G - 6.400G†	CW	9000	.75	45		KL4Ø	AM	MT	WA	90 *
2	VA936	6150M	3500	5.900G - 6.400G†	CW	9000	.90	50		KL4Ø	AM	MT	WA	120
3	VA867	6150M	11500	5.900G - 6.400G†	CW	17500	1.7	44		KL4#Ø	AM	MT	WA	217
4#	6AV60	6375M	3000	6.325G - 6.425G	CW	13000	1.7	30		KL4	AM	MT	WA	
5#	M4627F	6.4G	7.0k	6.35G-6.45G	CW	13k	1.8	33		KL4Ø	AM	MT	WA	
6	SAX4182	7362M	20000	7.362G	CW	20000	2.9	50		KL4Ø	AM	FF	WA	190 *
7	VA830A	7400M	1000	7.100G - 7.700G	CW	7000	.50	45		KL4†	AM	MT	WA	35
8	SAX4570	7730M	100000	7.730G	CW	38000	7.4	50		KL4Ø	AM	FF	WA	205 *
9	VA856	7800M	2500	7.100G - 8.500G†	CW	9500	.80	47		KL4#Ø	AM	MT	WA	6.0
10	VA863	7800M	9600	7.100G - 8.500G†	CW	16500	1.6	46		KL4#Ø	AM	MT	WA	214 *
11	VA849	7800M	18200	7.100G - 8.500G†	CW	23000	2.7	44		KL4#Ø	AM	MT	WA	214 *
12	SAX4181	7800M	20000	7.100G - 8.500G	CW	20000	2.9	65*		KL4	AM		WA	200 *
13	VA873	7800M	45000	7.100G - 8.500G†	CW	27000	5.4	40		KL4#Ø	AM	MT	WA	18
14	SAX4184	7994M	20000	7.994G	CW	20000	2.9	50		KL4Ø	AM	FF	WA	190 *
15	VA806	8000M	1400	7.500G - 8.500G†	CW	8000	.62	42		KL4#Ø	AM	MT	WA	50 *
16	SAX4188	8000M	20000	8.000G	CW	20000	2.9	50		KL4Ø	AM	FF	WA	200 *
17	VA849J	8000M	25000	8.000G	CW	23000	2.7	44		KL4	AM	MT	WA	20
18	VA830B	8050M	1000	7.700G - 8.400G	CW	7000	.50	40		KL4†	AM	MT	WA	35
19	VA849H	8050M	25000	8.050G	CW	25000	3.0	44		KL4Ø	AM	MT	WA	20
20	SAX4183	8200M	20000	8.200G	CW	20000	2.9	50		KL4Ø	AM	FF	WA	190 *
21	VA849K	8350M	25000	8.350G	CW	25000	3.0	44		KL4Ø	AM	MT	WA	20
22	VA823	8550M	6000	7.100G - 10.00GØ	CW	14500	1.5	47.8		KL4#Ø	AM	MT	WA	8.0
23	SAX4708	9000M	30000	8.800G - 9.200G	.10	25000		50		KL4	AM	MT	WA	20
24#	VA822A	9100M	1.5k	9.000G - 9.200G	CW	8500	.74			KL4†	AM	MT	WA	17
25	SAX4707	9100M	6000	9.000G - 9.200G	CW	12500	1.4	50	40	KL4#Ø	AM	MT	WA	97 *
26#	VA822B	9300M	1.5k	9.200G - 9.400G	CW	8500	.74			KL4†	AM	MT	WA	17
27	VA82	9.3G	7.0k	9.2G-9.4G†	10m	17k	2.2	57		KL4†	AM	MT	WA	18
28#	VA822C	9500M	1.5k	9.400G - 9.600G	CW	8500	.74			KL4†	AM	MT	WA	17
29#	VA822D	9700M	1.5k	9.600G - 9.800G	CW	8500	.74			KL4†	AM	MT	WA	17
30	VA872	9800M	1200	9.200G - 10.40G	CW	8000	.70	50		KL4†	AM	MT	WA	45
31	VA854	9.85G	1.5k	9.2G-10.5G†	400m	11k	1.0	46		KL4#†	AM	MT	WA	17
32	VA869	9.9G	500 †△	9.2G-10.6GØ	400m	7.0k	500m	43		KL4#†	AM	MT	WA	5.0
33#	VA822E	9900M	1.5k	9.800G - 10.00G	CW	8500	.74			KL4†	AM	MT	WA	17
34	VA848	9950M	2400	9.100G - 10.80G†	CW	10500	1.05	56		KL4#†	AM	MT	WA	37
35	VA822	10000M	1200	9.000G - 11.00G†	CW	8000	.58	52		KL4#†	AM	MT	WA	17
36	VKX7765	10.000G	1.550k	9.000G-11.000G	CW	8.500k	722m	45		KL4#†	AM	MT	WA	25
37	VA851	10.020G	2.700k	9.500G-10.550G	CW	11k	900m	32		KL4#†	AM	MT	WA	30
38#	VA822F	10125M	1.5k	10.00G - 10.25G	CW	8500	.74	52		KL4†	AM	MT	WA	17
39	VA911A	10125M	5000	10.00G - 10.25G	CW	14500		50		KL4Ø	AM	MT	WA	10
40#	VA822G	10375M	1.5k	10.25G - 10.50G	CW	8500	.74			KL4†	AM	MT	WA	17
41	SAX4186	10500M	100000	10.50G	.10	39000	7.6	55		KL4Ø	AM	FF	WA	176 *
42	SAX4706	10600M	15000	10.55G - 10.65G	CW	20000	3.0	47†	40	KL4#Ø	AM	MT	WA	20
43	SAX5180	10600M	15000 †		CW	20000	3.0	50†		KL4Ø#	AM	FF	WA	200 △*
44	SAX4187	10600M	65000	10.60G	.10	32000	5.7	55		KL4Ø	AM	FF	WA	176 *
45#	VA822H	10625M	1.5k	10.50G - 10.75G	CW	8500	.74			KL4†	AM	MT	WA	17
46#	VA822J	10900M	1.5k	10.75G - 11.00G	CW	8500	.74			KL4†	AM	MT	WA	17
47	VA882	15.2G	2.0k	12.4G-18G†	CW	9.5k	700m	60		KL4†#	AM	MT	WA	40
48	VA812	425M	20M	400.0M - 450.0M	.006	245.0k	350	36		KL5Ø	AM	MT	WA	1700
49	VA946C	518M	32.5k	470M-566M	CW	19.5k	5.4	48		KL5Ø#	AM	MT	CO	350
50	Z158/150Z	518M	40k	470M-566M	CW	24k	8.0	48		KL5Ø	AM	MT	CO	390
51	VA953A	518M	55000	470.0M - 566.0M	CW	24000	7.3	48		KL5Ø	AM	MT	CO	220
52	Z168/150Z	632M	40k	566M-698M	CW	24k	8.0	48		KL5Ø	AM	MT	CO	390
53	VA954A	632M	55000	566.0M - 689.0M	CW	24000	7.3	48		KL5Ø	AM	MT	CO	220
54#	KAP1340	635M	20k	570M-700M†	CW	17.5k	5.0	50		KL5	AM	MT	WA	110
55	VA955A	789M	55000	689.0M - 890.0M	CW	24000	7.3	48		KL5Ø	AM	MT	CO	220
56	L5120	805M	1.25M	805.0M	.12	75000	40	50		KL5	AM	FF	WA	1200 △
57#	TV7758	870M	10k	755M-985M	CW	18k	2.0	33		KL5	AM	MT	WA	250
58#	TV2151	883M	10000	780.0M - 985.0M		13000	3.0	40		KL5Ø	AM	MT	CO	133.5
59	VA936D	1.303G	5.0M	1.255G-1.350G	50u	132k	95	40		KL5Ø	AM	MT		150
60	5KM70SF	1755M	10000	1.710G - 1.800G	CW	20000	4.0	30		KL5	AM	MT	WA	300 *
61	VA859A	2050M	20000	1.700G - 2.400G	CW	20000	3.2	50		KL5Ø	AM	MT	WA	
62	X3065	2105M	200 †	2.100G - 2.110G	CW	4000	.18	40†		KL5△	AM	MT	CO	5.0
63	X3065A	2105M	500 †	2.100G - 2.110G	CW	6000	.33m	30†		KL5△	AM	MT	CO	5.0
64	5K70SH	2450M	30000	2.450G	CW	23000	3.0	50†		KL5Ø#	AM	FF	WA	286 *
65#	TV5K70SH	2.45G	30k	2.45G	CW	23k	3.0	50†		KL5Ø	AM	FF	WA	286 *
66	5K300SG	2.54G	55000	2.385G-2.700G	CW	28k	4.7	50		KL5Ø	AM	MT		235
67	L5109	2679M	250	2.674G - 2.684G	CW	4000	.195	29		KL5△	AM		CO	11
68	SAS1592	2.856G	21M	2.856G	900u	250k	250	49		KL5Ø	AM	FF	WA	225 △
69	8840	2856M	28M		900u	270k	298	53		KL5#Ø	AM	FF	WA	150
70#	YK1200	2998M	25M	2993M-3003M		280k	250	50		KL5	AM	FF	WA	209 §
71#	KA438	3.0G	25M△	2.7G-3.2G*	500u	260k	265	50		KL5Ø	AM	FF	WA	
72#	KA437	3.0G	30M△	2.7G-3.2G*	800u	280k	295	50		KL5Ø	AM	FF	WA	309
73	VA919A	3.8G	5.0k	3.6G-4.0G	CW	15k	2.0	50		KL5#Ø	AM	MT	WA	22
74	L5195	4455M	35000	4.355G - 4.555G	.01	27000	4.4	45		KL5△	AM		WA	14
75	L5182	4700M	1000	4.400G - 5.000G	CW	7500	.42	44		KL5△	AM		WA	10
76	5K50CB	4700M	10000	4.400G - 5.000G†	CW	15000	2.1	57		KL5Ø	AM	MT	WA	30
77	VA908D	4700M	15500	4.400G - 5.000G	CW	18000	3.0	52		KL5#Ø	AM	MT	WA	20
78#	LD4069	6150M	1000	5925M-6425M	CW	7500	750m	33		KL5†	AM	MT	WA	90
79	VA936C	6.150G	1.200k	5.900G-6.400G	CW	6.500k	560m	43		KL5†	AM	MT	WA	55
80#	LD4118	6175M	1.0k	5.925G-6.425G	CW	7.5k	750m	35		KL5†	AM	MT	WA	65 *
81#	LD4132	6175M	2.0k	5.925G-6.425G	CW	9.0k	950m	39		KL5†	AM	MT	WA	110 *
82#	LD4011	6175M	3.0k	5925M-6425M	CW	10k	1.1	45		KL5Ø	AM	MT	WA	22
83#	TV884A	6175M	10000	5.925G - 6.425G	CW	18000	3.0	50		KL5Ø	AM	MT	WA	197 *
84#	TV884B	6175M	14k†	5.925G-6.425G	CW	19k	3.2	50		KL5	AM	MT	WA	22 §
85#	LD847	6200M	5000 †	5.925G - 6.425G	CW	12500	1.8	46		KL5	AM	MT	WA	
86	VA960A	6400M	1200	6.375G - 6.425G	CW	7500	.70	40		KL5†	AM	FF	WA	77
87	VA885	7750M	12000	7.100G - 8.400G†	CW	16000	2.3	59		KL5#Ø	AM	MT	WA	22
88	VA881	7800M	6200	7.100G - 8.500G†	CW	13000	1.2	45		KL5†	AM	MT	WA	120
89	VA949	7800M	220000	7.100G - 8.500G†	CW	50000	10	63.4		KL5#Ø	AM		WA	165
90	VA874	9.3G	125k	9.0G-9.6G†	5.0m	40k	7.9	54		KL5†	AM	MT		35
91	V24F	9500M	60000	9.000G - 10.00G	.005	32000	5.2	55		KL5†	AM	MT	WA	25
92	VA864	10350M	10000	9.600G - 11.10G†	CW	17000	1.8	50		KL5Ø	AM	MT	WA	12
93	VA981	10.500G	10k	10.000G-11.000G		13k	2.0	33		KL5#Ø	AM	MT	WA	20
94	SAL166	1.29G	12.5M	1.215G-1.365G	4.8m	195k	224	32		KL6Ø	AM	FF	WA	300 §
95	X3039	1.3G	10M△	1.25G-1.35G	7.5m	180k		33		KL6	AM	MT	WA	450
96	X3029	2856M	75000	2.856G	.002	27000	10	60		KL6	AM	FF	CO	35
97#	TV2102	4.375G	25k†	1.55G-5.2G	2.4	34k	13	40		KL6	AM		CO	
98	VA928	35000M	1200	35.00G	CW	12000	1.0	45		KL6#Ø	AM	MT	WA	92
99	VKC7762	5.525G	1.0M	5.395G-5.655G	6.9m	80k	43.5	47		KL7#	AM	MT	WA	
100	VA962	8150M	16000	7.900G - 8.400G	CW	17000	3.0	38		KL7	AM	MT	WA	25
101	55031	9.255	225k	9.168G-9.345G	2.0m	23k	27.5			MG	OS	FF	WA	
102#	M194	9.41k	7.0k	9.38G-9.44G	2.5m	6.0k	5.5			MG	OS	FF	WA	3.1
103	ZM6068	375M	.50	250.0M - 500.0M*	CW	2700	.01			MG	OS	VT	WA	3.6
104	ZM6206	422M	.032 †	320.0M - 525.0M	CW	2500	.01			MG	OS	VT	CO	2.5
105	X1084	450M	.03 †	300.0M - 600.0M	CW	2000	.01			MG	OS	VT	CO	
106	JAN4J42	695M	50 †	660.0M - 730.0M	.005	18000	10			MG	OS	MT	CO	
107	ZM6204	710M	.032 †	510.0M - 910.0M	CW	2500	.02			MG	OS	VT	CO	2.5
108	ZM6014	850M	.50 †	500.0M - 1.200G	CW	2500				MG	OS	VT	CO	3.0
109#	1M70	915M	30000	900M-930M	CW	14000	3.0			MG	OS	FF	CO	16
110#	BM25L	915M	30000	890.0M - 940.0M	CW	14500	4.0			MG	OS	FF	WA	22 §

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	JAN4J51	935M	180 †	900.0M - 970.0M	.001	23000	20			MG	OS	MT	CO	
2	ZM6085	1185M	.036 †	885.0M - 1.485G	CW	1625	.02			MG	OS	VT	CO	4.0
3	L5204	1.237G	200	975M-1.500G	500m	5.0k	700m			MG	OS	MT	CO	18
4#	CV3602	1285M	610k	1.220G - 1.350G	.002	34000	60			MG	OS	MT	CO	19.8
5#	JNT1-500	1285M	610k	1.220G - 1.350G	.002	34000	60			MG	OS	MT	CO	20
6#	6517-QKH358	1.300G	1.0m	1.250G-1.350G	1.3m	54k	50			MG	OS	MT	WA	90.4
7#	7484A-QKH470A	1.300G	2.0m	1.250G-1.350G	1.4m	58.5k	90			MG	OS	MT	WA	90.4
8	JAN7484QK470	1.3G	2.0M△†	1.25G-1.35G	1.2m	80k	100			MG	OS	MT	WA	90
9#	MC567A,B-J	1.32G	2.5M	1.27G-1.37G†	1.5m	42k	150			MG	OS	FF	WA	
10	ZM6051	1500M	.10 †	1.000G - 2.000G	CW	1500	.01			MG	OS	VT	CO	3.5
11	ZM6238	1.5G	1.0 †	1.0G-2.0GØ	CW	1.3k	15m			MG	OS	VT	CO	1.5 △
12	Z5405	1650M	1.0 †	1.000G - 2.300G	CW	2000				MG	OS	VT	CO	3.0
13	ZM6021	1650M	1.0 †	1.000G - 2.300G	CW	2000				MG	OS	VT	CO	3.0
14	ZM6001	1650M	2.0 †	1.625G - 1.700G	CW	500				MG	OS	VT	CO	
15	ZM6104	1850M	2.8 †	1.760G - 1.940G	CW	1500	.02			MG	OS	VT	CO	1.5
16	ZM6242	1.85G	4.0 †	1.775G-1.925GØ		1.5k	20m		80	MG	OS	VT	CO	2.0
17	ZM6058	2000M	1.0 †	1.000G - 3.000G	CW	2000				MG	OS	VT	CO	
18	ZM6086	2015M	.036 †	1.420G - 2.607G	CW	1740	.02			MG	OS	VT	CO	4.0
19	Z5428	2250M	10	2.200G - 2.300G	CW	2500				MG	OS	VT	CO	4.5
20	ZM6000	2250M	10 †	2.090G - 2.410G	CW	2500				MG	OS	VT	CO	
21	ZM6022	2250M	10 †	2.200G - 2.300G	CW	2500				MG	OS	VT	CO	
22	ZM6033	2300M	2.0 †	1.800G - 2.800G	CW	2000				MG	OS	VT	CO	
23#	M4539	2450M	45	2.420G - 2.480G	CW	2300	.10			MG	OS	FF	CO	1.5
24#	M4542C	2450M	140	2.430G-2.480G	CW	1900	250m			MG	OS	FF	CO	3.8
25#	2M10	2450M	150 †	2.400G - 2.500G	CW	1300 Ø	.25 Ø			MG	OS	FF	CO	1.3 §
26#	M4542A	2450M	180	2.430G-2.480G	CW	1900	250m			MG	OS	FF	CO	3.8
27#	2M75	2450M	200	2.425G - 2.475G	CW	2400	.15			MG	OS	FF	CO	3.7
28#	JP2-0.2	2450M	200	2.425G - 2.475G	CW	1650	.40			MG	OS	FF	CO	5.3
29#	M1208	2.450G	700	2.420G-2.480G	CW	3.8k	350m			MG	OS	FF	CO	
30#	2M65	2450M	750	2.425G - 2.475G	CW	4000	.30			MG	OS	FF	CO	1.1 §
31#	2M67	2450M	750	2.420G - 2.480G	CW	4000	.30			MG	OS	FF	CO	6.6
32#	M165R	2450M	750	2.425G - 2.475G	CW	4000	.30			MG	OS	FF	CO	2.9 §
33#	YJ1310	2.450G	750	2.435G-2.475G	CW	4.0k	450m			MG	OS	FF	CO	5.0
34#	LD934	2450M	800	2.420G - 2.480G	CW	4500	.35			MG	OS	FF	CO	6.4
35#	LD951	2450M	800	2.420G - 2.480G	CW	4500	.35			MG	OS	FF	CO	6.4
36#	QKH707	2450M	800 †	2.425G - 2.475G	CW	6300 Ø	.275 Ø			MG	OS	FF	CO	4.0 §
37#	2M54	2450M	830	2.440G-2.460G	CW	4000	350m			MG	OS	FF	CO	3.63
38#	2M59	2450M	880	2.440G-2.460G	CW	4200	350m			MG	OS	FF	CO	9.0
39	DX260A	2450M	1000	2.425G - 2.475G	CW	5000	.40			MG	OS	FF	CO	
40	DX312	2450M	1000	2.425G - 2.475G	CW	3500	.75			MG	OS	FF		5.0
41#	YJ1370	2.450G	1.0k	2.435G-2.475G	CW	4.0k	650m			MG	OS	FF	CO	5.0
42#	YJ1371	2450M	1.0k	2.435G-2.475G	CW	4.0k	650m			MG	OS	FF	CO	5.0
43#	JP2-1A	2450M	1200	2.425G - 2.475G	CW	5800	1.3			MG	OS	FF	WC	9.26
44#	2M89	2450M	1300	2.425G - 2.475G	CW	7700	2.0			MG	OS	FF	CO	1.2 §
45#	E3639	2450M	1300	2.440G-2.460G	CW	3500	600m			MG	OS	FF	WA	6.0
46#	M180	2450M	1300	2.425G - 2.475G	CW	7000	.30			MG	OS	FF	CO	5.5 §
47#	MG82T1	2450M	1300	2425M-2475M	CW	3550	750m			MG	OS	FF		7.0
48#	TV1022D	2450M	1350 †	2.415G - 2.485G	CW	2350	.85			MG	OS	FF		12.3
49	TV1024	2450M	1350	2.415G - 2.485G	CW	2350	.85			MG	OS	FF		
50#	2M90	2450M	1500	2.420G - 2.480G	CW	3600	.75			MG	OS	FF	CO	6.6
51#	2M91	2450M	1500	2.420G - 2.480G	CW	3600	.75			MG	OS	FF	CO	6.6
52#	F1112	2450M	1500	2.425G - 2.475G	CW	4000	.90			MG	OS	FF	WA	4.85
53#	M1218	2.450G	1.5k	2.420G-2.480G	CW	3.65k	700m			MG	OS	FF	CO	
54#	M1228	2.450G	1.5k	2.425G-2.475G	CW	3.55k	625m			MG	OS	FF	CO	8.16
55#	YJ1260	2450M	1500	2.435G - 2.475G	CW	4000	3.0			MG	OS	FF	CO	8.6
56#	YJ1261	2.450G	1.5k	2.435G-2.475G	CW	4.0k	850m			MG	OS	FF	CO	5.0
57#	M1214	2.450G	1.7k	2.435G-2.465G	CW	6.6k	550m			MG	OS	FF	CO	
58#	2M60	2450M	2500	2.425G - 2.475G	CW	6700	2.1			MG	OS	FF	CO	
59	7091	2.45G	2.5k	2.425G-2.475G	CW	4.7k	750m			MG	OS	FF	CO	21.6
60	7292	2.45G	2.5k	2.425G-2.475G	CW	4.7k	750m			MG	OS	FF	CO	15.8
61#	M1217	2.450G	2.5k	2.420G-2.480G	CW	5.5k	720m			MG	OS	FF	CO	
62#	YJ1162-JP2-2.5A	2.45G	2.5k	2.425G-2.475G	CW	5.0k	2.1			MG	OS	FF	CO	17.4
63	55125	2.450G	5.0k	2.425G-2.475G	CW	6.5k	1.5			MG	OS	FF	WA	21.1
64#	MCV1327	2.450G	5.0k	2.425G-2.475G	CW	5.2k	1.6			MG	OS		WA	10
65	ZM6220	2.61G	3.0 *	2.475G-2.745GØ		1.2k	14m			MG		VT	CO	3.5 △
66	ZM6203	2.61G	4.0 *	2.475G-2.745GØ		1.2k	22m			MG		VT	CO	3.5 △
67	ZM6032	2650M	7.5 †	2.290G - 3.010G	CW	1500				MG	OS	VT	CO	
68	JAN4J35	2720M	400 †	2.700G - 2.740G	.001	30000	70			MG	OS	FF		
69#	VMS2800A1	2.72G	2.5M	2.715G-2.725G	1.5m	35k	185			MG	OS	FF	WA	11 §
70	ZM6046	2750M	65	2.600G - 2.900G	CW	3200	.07			MG	OS	VT	WA	7.5
71#	M5046	2.75G	1.2M△	2.7G-2.8G	1.5m	36k	75			MG	OS	FF	WA	60 *
72	JAN4J34	2760M	400 †	2.740G - 2.780G	.001	30000	70			MG	OS	FF		
73#	VMS2800A2	2.76G	2.5M	2.74G-2.78G	1.5m	35k	185			MG	OS	FF	WA	11 §
74#	3M901	2765M	4.7M	2.750G - 2.780G	.001	75000	135			MG	OS	MT	WA	
75#	BM1014	2.766G	250k	2.748G-2.783G	500u	290k	40			MG	OS	FF	CO	6.0 §
76#	3M902	2795M	4.7M	2.780G - 2.810G	.001	75000	135			MG	OS	MT	WA	
77	ZM6034	2800M	2.0 †	2.650G - 2.950G	CW	1000				MG	OS	VT	CO	
78	JAN4J33	2.8G	400 †	2.78G-2.82G	1.0m	30k	70			MG	OS			
79#	CV3611	2800M	800k	2.700G - 2.900G	.001	30000	70			MG	OS	MT	CO	5.0
80#	5586A	2.8G	1.0M	2.7G-2.9G	1.2m	30k	70			MG	OS	MT	CO	5.5 §
81#	VMS2800A3	2.8G	2.5M	2.78G-2.82G	1.5m	35k	185			MG	OS	FF	WA	11 §
82#	BM1015	2.802G	250k	2.783G-2.82G	500u	29k	40			MG	OS	FF	CO	6.0 §
83#	3M903	2825M	4.7M	2.810G - 2.840G	.001	75000	135			MG	OS	MT	WA	
84#	BM1016	2.839G	250k	2.82G-2.858G	500u	29k	40			MG	OS	FF	CO	6.0 §
85	JAN4J32	2840M	400 †	2.820G - 2.860G	.001	30000	70			MG	OS			
86#	VMS2800A4	2.84G	2.5M	2.82G-2.86G	1.5m	35k	185			MG	OS	FF	WA	11 §
87	Z5436	2850M	.005 †	2.400G - 3.300G	CW	1500				MG	OS	VT	CO	
88#	M5047	2.85G	1.2M△	2.8G-2.9G	1.5m	36k	75			MG	OS	MT	WA	60 *
89#	3M904	2855M	4.7M	2.840G - 2.870G	.001	75000	135			MG	OS	MT	WA	
90	JAN4J31	2880M	400 †	2.860G - 2.900G	.001	30000	70			MG	OS	FF		
91	JAN6518QK254	2.88G	900	2.86G-2.9G	700u	48k	92			MG	OS	FF	WA	82
92#	VMS2800A5	2.88G	2.5M	2.875G-2.885G	1.5m	35k	185			MG	OS	FF	WA	11 §
93#	TH1658A	2915M	900000	2.900G - 2.930G	.001	32500	70			MG	OS	FF	CO	12.3
94	55100-04	2.96G	400k	2.94G-2.98G	1.2m	30k				MG	OS	FF	CO	
95	L5205	2.962G	200	2.350G-3.575G	500m	5.000k	700m			MG	OS	MT	WA	18
96	Z5266	2975M	.0005 †	2.350G - 3.600G	CW	2000				MG	OS	VT	CO	
97#	M5030	2975M	1.0M	2.900G - 3.050G	.002	36000	70			MG	OS	MT	WA	67 *
98#	MCV1129	2975M	1.0M△	2.900G - 3.050G	.002	30000	65			MG	OS	MT	WA	
99	55100-03	2.993G	400k	2.98G-3.005G	1.2m	30k				MG	OS	FF	CO	
100#	TH3056	2996M	1750k	2.992G-3.001G	1.5m	40000	90			MG		MT		
101#	TH3060	2996M	2.0M	2.992G-3.10G	1.5m	47k	110			MG	OS	MT	WA	18
102#	TV1542	2.997G	2.0M	2.995G-3.0G	1.5m	46k	110			MG	OS	FF	WA	18
103#	VMS2807A1	2997M	2.0M	2.995G-3.000G	1.5m	46k	110			MG	OS	FF	WA	18
104	ZM6222	3.0G	1.0 †	2.0G-4.0GØ	CW	1.3k	15m			MG	OS	VT	CO	1.5 △
105	ZM6223	3000M	1.25 †	2.000G - 4.000G	CW	1250	.015			MG	OS	VT	CO	2.0 △
106	ZM6103	3000M	2.8 †	2.875G - 3.125G	CW	1500	.03			MG	OS	VT	CO	1.5
107	ZM6006	3000M	3.0 †	2.800G - 3.200G	CW	1000				MG	OS	VT	CO	
108	Z5337	3000M	4.0 †	2.900G - 3.100G	CW	1000				MG	OS	VT	CO	
109	ZM6243	3.0G	4.0 †	2.89G-3.11GØ		1.5k	30m		80	MG	OS	VT	CO	2.0
110	ZM6019	3000M	10 †	2.500G - 3.500G	CW	2500				MG	OS	VT	CO	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	ZM6211A	3.0G	10 †	2.5G-3.5GØ	CW	1.7k	20m			MG	OS	VT	CO	1.5 △
2#	F1007	3000M	900000	2.970G - 3.030G	.001	32500	70			MG	OS	FF		12.3
3#	CV76	3005M	450000	2.950G - 3.060G	.001	30000	35			MG	OS			1.75 △
4	55100-02	3.018G	400k	3.005G-3.03G	1.2m	30k				MG	OS	FF	CO	
5	JAN7397	3025M	2.0 †	2.200G - 3.850G	CW	2000	.035			MG	OS	VT	CO	5.0 △
6	GL7398	3025M	2.0 †	2.200G - 3.850G	CW	2000				MG	OS	VT	CO	3.5
7	ZM6050	3025M	2.0 †	2.200G - 3.850G	CW	2000				MG	OS	VT	CO	
8	55100-01	3.045G	400k	3.03G-3.06G	1.2m	30k				MG	OS	FF	CO	
9#	M5063	3.050G	50k△	3.025G-3.075G	1.0m	9.5k	16			MG	OS	FF	WA	3.75
10#	M5049	3.05G	1.2M△	3.0G-3.1G	1.5m	36k	75			MG	OS	MT	WA	60 *
11#	CV160	3062M	200000	3.000G - 3.125G	.001	24000	22.5			MG	OS		CO	2.75 △
12#	TH1658B	3065M	900000	3.050G - 3.080G	.001	32500	70			MG	OS	FF	CO	12.3
13#	M5034	3125M	1.0M	3.050G - 3.200G	.002	36000	70			MG	OS	MT	WA	67 *
14#	MCV1130	3125M	1.0M△	2.900G - 3.050G	.002	30000	65			MG	OS	MT	WA	
15	Z5360	3150M	.10 †	2.800G - 3.500G	CW	2000				MG	OS	VT	CO	
16#	F1001	3200M	800000	3.100G - 3.300G	.001	32500	70			MG	OS			6.12
17	JAN2J39	3300M	12 †	3.267G - 3.333G	.002	5500	8.0			MG	OS	FF	CO	
18	JAN2J22	3300M	240 †	3.267G - 3.333G	.002	22000	30 Ø			MG		FF	CO	
19#	CV5117	3.3G	180k	3.288G-3.312G	600u	23k	24			MG	OS		WA	2.5 △
20#	CV192	3.3G	190k	3.288G-3.312G	800u	23k	23			MG	OS			2.0 △
21	ZM6087	3408M	.036 †	2.507G - 4.310G	CW	1700	.02			MG	OS	VT	CO	4.0
22	JAN4J41	3425M	1000 △	3.400G - 3.450G	.001	30000	70			MG	OS	FF	WA	
23	55085-04	3.47G	360k	3.45G-3.49G	200u	30k				MG	OS	FF	CO	
24	JAN4J40	3475M	1000 △	3.450G - 3.500G	.001	30000	70			MG	OS	FF	WA	
25	BLM076	3500M	2000	35.00G	.001	3600	4.0			MG	OS		CO	.69
26	55085-03	3.51G	360k	3.49G-3.53G	200u	30k				MG	OS	FF	CO	
27	JAN4J39	3525M	1000 △	3.500G - 3.550G	.001	30000	70			MG	OS	FF	WA	
28	55085-02	3.55G	360k	3.53G-3.57G	200u	30k				MG	OS	FF	CO	
29	55085-01	3.592G	360k	3.57G-3.614G	200u	30k				MG	OS	FF	CO	
30	JAN4J37	3625M	1000 △	3.600G - 3.650G	.001	30000	70			MG	OS	FF	WA	
31#	8764-QKH1448	3.645G	1.0m	3.590G-3.700G	1.2m	46k	50			MG	OS	MT	WA	70.6
32	JAN4J36	3675M	1000 △	3.650G - 3.700G	.001	30000	70			MG	OS	FF	WA	
33	ZM6257	4.0G	10 †	3.5G-4.5GØ	CW	1.7k	20m			MG	OS	VT	CO	1.5 △
34	ZM6003	4300M	2.0 †	4.200G - 4.400G	CW	1000				MG	OS	VT	CO	
35	ZM6246	5.05G	90	4.8G-5.3GØ	CW	3.2k	70m			MG		VT	CO	7.0
36	ZM6015	5300M	10 †	5.175G - 5.425G	CW	2500				MG	OS	VT	CO	
37#	5M36A	5.3G	350k	5.26G-5.34G	700u	23k	40			MG	OS	FF	WA	
38#	5M71	5335M	85000	5.315G - 5.355G	.001	16000	16			MG	OS	FF	WA	
39#	M4508C	5.335G	320000	5.325G-5.345G	700u	23000	40			MG	OS	MT	WA	4.2
40#	CV6248	5.400G	1.0k	5.200G-5.600G	200m	2.8k	1.5			MG	OS	MT	CO	
41#	JPT6-1	5400M	1000	5.200G - 5.600G	.002	2800 Ø	1.5			MG	OS	MT		
42#	YJ1410	5400M	1.0k	5.2G-5.6G	.002	2.8kØ	1.5			MG	OS	MT		
43#	7040-QKH456	5.400G	85k	5.380G-5.420G	1.0m	14.5k	14			MG	OS	FF	WA	7.94
44	TV1510	5.415G	400	5.395G-5.435G	250u	2.3k	1.2			MG	OS	FF	CO	670m
45	TV1501	5.425G	400k†	5.350G-5.500G	500u	30k	33			MG	OS		WA	37.7
46	MCM40	5450M	900	5.200G - 5.700G	.002	2700	2.1			MG	OS	MT	CO	
47#	E3510	5540M	85k	5.510G-5.570G	1.0m	15k	13.5			MG	OS	FF	WA	
48	JANQK447	5.633G	250k†	5.45G-5.825G	1.2m	28k	30			MG		MT		35
49#	7156-QKH662	5.637G	250k	5.450G-5.825G	1.0m	25k	24			MG	OS	MT	WA	35.3
50#	7460-QKH686	5.637G	250k	5.450G-5.825G	300u	24.5k	25			MG	OS	MT	WA	35.3
51#	TV1502	5.638G	250k†	5.45G-5.825G	1.2m	28k	30			MG	OS	MT	WA	37.7
52	MCM20	5650M	25	5.400G - 5.900G	.002	500	.19			MG	OS	MT		
53#	YJ1030	5650M	70 †△	5.40G-5.90G	2.0m	1350	1.0			MG	OS	MT	CO	441m
54#	CV6225	5650M	120 △	5.400G - 5.900G	.002	1350	1.0			MG	OS	MT	CO	.441
55	JAN7088	5650M	130 △	5.400G - 5.900G	.002	2000	1.0			MG	OS	MT	CO	.50
56	BLM163	5650M	150 †	5.400G - 5.900G	.002	1350 Ø	1.0			MG	OS	MT	CO	.50
57	MCM34	5650M	150 †	5.400G - 5.900G	.002	1400	1.2			MG	OS	MT	CO	
58	MCM31	5650M	250	5.400G - 5.900G	.002	1450	1.1			MG	OS	MT	CO	
59	MCM30	5650M	300	5.400G - 5.900G	.002	1300	1.0			MG	OS	MT	CO	
60	MCM15	5650M	400	5.400G - 5.900G	.002	2000	1.1			MG	OS	MT		
61	MCM38	5650M	400	5.400G - 5.900G	.002	2300	1.1			MG	OS	MT	CO	
62	MCM41	5650M	400	5.400G - 5.900G	.002	2300	1.3			MG	OS	MT	CO	
63	BLM152	5650M	500 †	5.400G - 5.900G	.002	2250 Ø	1.1			MG	OS	MT	CO	.63
64	MCM27	5650M	500	5.400G - 5.900G	.002	2200	1.1			MG	OS	MT	CO	
65	MCM21	5650M	550	5.400G - 5.900G	.002	2500	1.5			MG	OS	MT		
66	MCM43	5650M	600	5.400G - 5.900G	.002	2600	1.7			MG	OS	MT	CO	
67	BLM020	5650M	700 †	5.400G - 5.900G	.002	2550 Ø	1.4			MG	OS	MT	CO	.63
68	MCM18	5650M	700	5.400G - 5.900G	.002	2000	1.1			MG	OS	MT	CO	
69	MCM19	5650M	900	5.400G - 5.900G	.002	2800	1.9			MG	OS	MT		
70	MCM22	5650M	900	5.400G - 5.900G	.002	3000	1.9			MG	OS	MT		
71	MCM36	5650M	900	5.400G - 5.900G	.002	2500	1.5			MG	OS	MT	CO	
72	7444	5650M	1000	5.400G - 5.900G	.002	2800	1.9			MG	OS	MT		
73	BLM100	5650M	1000 †	5.400G - 5.900G	.002	2700 Ø	1.7			MG	OS	MT	CO	.50
74	MCM16	5650M	1000	5.400G - 5.900G	.002	2800	1.9			MG	OS	MT		
75	MCM26	5650M	1000	5.400G - 5.900G	.002	2700	1.7			MG	OS	MT	CO	
76	BLM144	5650M	1200	5.400G - 5.900G	.002	2950	1.9			MG	OS	MT	CO	
77	MCM28	5650M	1200	5.400G - 5.900G	.002	2800	1.9			MG	OS	MT	CO	
78	MCM39	5650M	1500	5.400G - 5.900G	.002	3000	2.0			MG	OS	MT	CO	
79	MCM33	5650M	2000	5.400G - 5.900G	.002	3300	3.0			MG	OS	MT	CO	
80	MCM29	5650M	2500	5.400G - 5.900G	.002	3300	3.5			MG	OS	MT	CO	
81	MCM37	5650M	4000	5.400G - 5.900G	.001	4350	4.2			MG	OS	MT	CO	
82	7414	5.65G	10k	5.4G-5.9G	300u	7.5k	4.0			MG	OS	FF		
83	BLM084	5.65G	35k†	5.625G-5.675G	400u	11k	11.5			MG	OS	FF	CO	
84	MCM12	5750M	400	5.400G - 5.900G	.002	2000	1.1			MG	OS			
85	MCM14	5750M	400	5.400G - 5.900G	.002	2200	1.2			MG	OS			
86#	7M401	6.58G	100 †	6.55G-6.61G	120m	1.45kØ	300mØ			MG	OS	MT	WA	2.0 §
87#	7M402	6.62G	100 †	6.59G-6.65G	120m	1.45kØ	300mØ			MG	OS	MT	WA	2.0 §
88	JAN4J56	6625M	600000	6.575G - 6.675G	.001	25000	35			MG		FF	WA	
89#	7M403	6.66G	100 †	6.63G-6.69G	120m	1.45kØ	300mØ			MG	OS	MT	WA	2.0 §
90#	7M404	6720M	100 †	6.690G - 6.750G	.12	1450 Ø	.30 Ø			MG	OS	MT	WA	2.0 §
91	JAN4J55	6725M	600000	6.675G - 6.775G	.001	25000	35			MG		FF	WA	
92#	7M405	6740M	100 †	6.710G - 6.770G	.12	1450 Ø	.30 Ø			MG	OS	MT	WA	2.0 §
93#	7M406	6780M	100 †	6.750G - 6.810G	.12	1450 Ø	.30 Ø			MG	OS	MT	WA	2.0 §
94#	7M407	6820M	100 †	6.790G - 6.850G	.12	1450 Ø	.30 Ø			MG	OS	MT	WA	2.0 §
95	JAN4J54	6825M	600000	6.775G - 6.875G	.001	25000	35			MG	OS	FF	WA	
96	ZM6059	7400M	2.0 †	6.900G - 7.900G	CW	3000				MG	OS	VT	CO	
97	MA208	7.813G	20	7.125G-8.5G	50m	800	200m			MG	OS	MT	WA	2.0
98	MA202	8.0G	1.0	7.5G-8.5G	CW	600	15m			MG	OS	MT		
99	L5206	8.025G	200	7.275G-8.775G	500m	5.000k	700m			MG	OS	MT	WA	18.0
100	MA221	8.15G	1.0 †	7.5G-8.8G	CW	420	15m			MG	OS	FF		
101	MA230	8150M	1.5 †	7.950G - 8.350G	CW	550	.013			MG	OS	FF	WA	.75
102	MA236	8200M	1.0	8.050G - 8.350G	CW	550	.013			MG	OS	EM		1.0
103	JPG8-01B	8300M	11.8	8.000G - 8.600G	CW	1150	.06			MG	OS	MT	WA	1.5
104	JPT8-01B	8300M	11.8	8.000G - 8.600G	CW	1090	.06			MG	OS	MT	WA	1.5
105	JPT8-01C	8425M	8.0 △	8.100G - 8.750G	CW	1090	.06			MG	OS	MT	WA	1.5
106	L3820	8500M	10 †	8.200G - 8.800G	.10	520	.13			MG	OS	MT	WA	.069 △
107#	CV2424	8583M	250000	8.500G - 8.665G	.001	23000	27.5			MG	OS	FF	WA	9.92
108	JP9-250E	8583M	250000	8.500G - 8.665G	.001	23000	27.5			MG	OS	FF	WA	10
109	L3602	8.6G	30 †	8.56G-8.64G	27m	600	400m			MG	OS	FF	WA	125 △
110	MXM13	8700M	100	8.500G - 9.000G	.002	1325	.90			MG	OS			

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUT PUT	WEIGHT (lb)
1	MXM23	8700M	1000	8.500G - 8.900G	.002	2600	2.0			MG	OS	MT		
2	MXM35	8700M	1000	8.500G - 8.900G	.002	2600	2.0			MG	OS	MT	WA	
3	MXM25	8700M	2500	8.500G - 8.900G	.002	3000	4.0			MG	OS	MT		
4#	CV2425	8748M	250000	8.665G - 8.830G	.001	23000	27.5			MG	OS	FF	WA	9.92
5	JP9-250D	8748M	250000	8.665G - 8.830G	.001	23000	27.5			MG	OS	FF	WA	10
6	JPG8-02B	8750M	30	8.510G - 9.000G	.05	1150	.16			MG	OS	MT	WA	1.63
7	YJ1091	8750M	50	8.500G - 9.000G	.004	1350	1.1			MG	OS	MT	CO	.507
8	YJ1101	8750M	180	8.500G - 9.000G	.004	1350	1.1			MG	OS	MT	CO	.507
9#	CV6072	8800M	25	8.770G - 8.830G	.50	850	.18			MG	OS	FF	WA	1.0
10#	CV6234	8800M	25	8.770G - 8.830G	.5	850	.18			MG	OS	FF	WA	.99
11#	JP8-02C	8800M	25	8.770G - 8.830G	.25	850	.18			MG	OS	FF	WA	1.0
12#	YJ1380	8.800G	25	8.770G-8.830G	500m	850	180m			MG	OS	FF	WA	1.0
13	L3089	8.8G	40 †	8.775G-8.825G	250m	850	200m			MG	OS	FF	WA	1.25 Δ
14	MXM38	8800M	500	8.600G - 9.000G	.002	2200	1.3			MG	OS	MT	WA	
15	MXM39	8800M	750	8.600G - 9.000G	.002	2500	1.7			MG	OS	MT	WA	
16	MXM53	8800M	1350	8.500G - 9.100G	.002	3000	2.5			MG	OS	MT	WA	
17	MXM40	8800M	2000	8.600G - 9.000G	.002	3200	3.0			MG	OS	MT	WA	
18#	CV6108	8800M	8500	8.770G - 8.830G	.001	5500	4.5			MG	OS	FF	WA	3.74
19#	YJ1070	8800M	8500	8.770G - 8.830G	.001	5500	4.5			MG	OS	FF	WA	3.74
20#	JP8-02B	8802M	25	8.770G-8.835G	500m	850	180mΔ			MG	OS	FF	WA	1.17
21#	CV2793	8.825G	44k	8.750G-8.900G	1.2m	16k	16			MG	OS	FF	WA	1.3 §
22	JPT8-01	8875M	11.8	8.600G - 9.150G	CW	1090	.06			MG	OS	MT	WA	1.5
23	6444F6	8.9G	1.0	8.8G-8.999G	CW	500	15m			MG	OS	FF	CO	
24	JPG8-01	8900M	11.8	8.600G - 9.150G	CW	1150	.06			MG	OS	MT	WA	1.5
25#	F1097	8.9G	70kΔ	8.5G-9.6G	1.5m	17k	17			MG	OS	MT	WA	
26#	CV2426	8913M	250000	8.830G - 8.995G	.001	23000	27.5			MG	OS	FF	WA	9.92
27	JP9-250B	8913M	250000	8.830G - 8.995G	.001	23000	27.5			MG	OS	FF	WA	10
28#	CV2427	8930M	250000	8.865G - 8.995G	.001	23000	27.5			MG	OS	FF	WA	9.92
29	JP9-250C	8930M	250000	8.865G - 8.995G	.001	23000	27.5			MG	OS	FF	WA	10
30	L3314	9000M	100 †	8.970G - 9.030G	.027	925	.60			MG	OS	FF	WA	1.37 Δ
31	BLM039	9000M	150 †	8.800G - 9.200G	.002	1320 Ø	.90			MG	OS	MT	CO	.37
32	MXM42	9000M	400	8.800G - 9.200G	.004	2100	1.3			MG	OS	MT	WA	
33#	CV3560	9.0G	60kΔ	8.5G-9.6G	1.2m	16k	15.5			MG	OS	MT	WA	4.85
34	L3212	9010M	120 †	9.000G - 9.020G	.027	920	.60			MG	OS	MT	WA	1.0 Δ
35	JP9-15E	9.03G	21k	9.02G-9.05G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.74
36	JP9-7E	9035M	10000	9.020G - 9.050G	.002	5900	6.0			MG	OS	FF	WA	3.09
37	MA219	9.05G	1.0 †	8.5G-9.6G		430	15m			MG	OS	MT		1.0
38	MA219B	9050M	1.0 †	8.500G - 9.600G	CW	470	.02			MG	OS	MT	WA	
39	MA219A	9050M	10 †	8.500G - 9.600G	.005	530	.15			MG	OS	MT	WA	
40	MA219C	9050M	20 †	8.500G - 9.600G	.005	560	.30			MG	OS	MT	WA	
41	6274	9.05G	8.0k	9.0G-9.1G	2.0m	5.7k	4.5			MG	OS	FF	WA	
42	6818	9050M	8000							MG	OS			3.0
43#	M5096	9050M	33k	8.50G-9.60G		12700	10			MG	OS	FF	WA	4.0
44#	2J51A/JPT9-60	9.05G	40k	8.5G-9.6G	1.1m	16k	15.5			MG	OS	MT	WA	4.9
45	L3106	9050M	65000 †	8.500G - 9.600G	.001	15000	15			MG	OS	MT	WA	6.12 Δ
46	L3106A	9050M	65000	8.500G - 9.600G	.001	15000	15			MG	OS	MT	WA	6.25 Δ
47	L4510	9.05G	65k†	8.5G-9.6G	1.2m	16.5k	16			MG	OS		WA	13
48#	MCF1145	9.05G	70k	8.6G-9.5G	1.5m	15k	15			MG	OS	FF	WA	6.0
49#	MCV602	9.05G	70k	8.5G-9.6G	1.5m	17k	17			MG	OS	MT	WA	
50#	4J52T	9.05G	75k	8.5G-9.6G	1.5m	17k	17			MG	OS	MT	WA	5.73
51	L4385	9.05G	75k	8.5G-9.6G	1.3m	16k	15			MG	OS	HT	WA	15 Δ
52	JAN6249B	9.05G	200k	8.5G-9.6G	1.3m	29k	32			MG	OS	MT	WA	16.3
53	L4310	9.05G	200k	8.5G-9.6G	1.3m	23k	30			MG	OS	MT	WA	13.5 Δ
54	L4490	9.05G	200k	8.5G-9.6G	1.3m	21k	27.5			MG	OS	MT	WA	10
55#	TH3044	9050M	200k†Δ	8.50G-9.60G	1.0m	23k	27.5			MG	OS	MT	WA	13
56#	TV1780A	9050M	200000	8.500G - 9.600G	CW	25000	27			MG	OS	MT	WA	11.34
57#	CV8652	9.05G	225kΔ	8.5G-9.6G	1.1m	2.3k	27.5			MG	OS	MT	WA	13
58#	YJ1010	9.05G	225kΔ	8.5G-9.6G	1.1m	2.3k	27.5			MG	OS	MT	WA	13
59#	YJ1011	9.05G	225kΔ	8.5G-9.6G	1.1m	2.3k	27.5			MG	OS	MT	WA	12
60	L3213	9060M	120 †	9.050G - 9.070G	.027	920	.60			MG	OS	MT	WA	1.0 Δ
61	MXM37	9080M	150	9.070G - 9.090G	.003	1400	1.5			MG	OS	FF	WA	
62	55032	9.085G	225k	9.003G-9.168G	2.0m	23k	27.5			MG	OS	FF	WA	
63	4J78	9085M	280000	9.003G - 9.168G	.002	24000	30			MG	OS	FF		
64#	4J78/JP9-250A	9085M	280k	9.003G - 9.168G	.002	24000	30			MG	OS	FF	WA	9.9
65#	CV5031	9086M	50000	9.003G - 9.168G	.001	16000	12			MG	OS	FF	WA	1.75 §
66#	CV3953	9086M	250k	9.003G - 9.168G	.001	23000	27.5			MG	OS	FF	WA	9.92
67	JP9-250A	9086M	250000	9.003G - 9.168G	.001	23000	27.5			MG	OS	FF	WA	10
68	6444F5	9100M	1.0	9.000G - 9.199G	CW	500	.015			MG	OS	FF	CO	
69	JP9-7F	9100M	10000	9.085G - 9.115G	.002	5900	6.0			MG	OS	FF	WA	3.09
70	JP9-15F	9.1G	21k	9.085G-9.115G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.74
71#	JPT9-60	9.1G	60k	8.50G-9.6G	1.1m	15.5k	14			MG	OS	MT	WA	4.8
72	DX249	9.1G	80k	8.6G-9.6GØ	1.2m	16k	17			MG	OS	MT	WA	7.7
73	DX270	9.1G	80k	8.6G-9.6	1.2m	16.5k	17			MG	OS	EM	WA	
74#	YJ1470	9100M	100000	8.50G-9.50G	1.0m	16000	20			MG	OS	ST	WA	
75#	YJ1180	9.100G	205k	8.700G-9.500G	1.1m	24k	27.5			MG	OS	ST	WA	15
76#	YJ1180/JPS9-200	9.1G	205k	8.7G-9.5G	1.1m	2.4k	27.5			MG	OS	MT	WA	15
77#	YJ1181	9.100G	205k	8.700G-9.500G	1.1m	24k	27.5			MG	OS	ST	WA	15
78#	M5006	9100M	225000	9.070G - 9.130G	.001	23000	27.5			MG	OS	FF	WA	10.5
79	L3214	9110M	120 †	9.100G - 9.120G	.027	920	.60			MG	OS	MT	WA	1.0 Δ
80#	MAG14	9120M	50000 Δ	9.040G - 9.200G	.001	15000	12			MG	OS	MT	WA	2.0
81	MXM47	9150M	200	8.950G - 9.350G	.002	1600	1.3			MG	OS	MT	CO	
82	MXM52	9150M	350	8.800G - 9.500G	.002	2500	1.4			MG	OS	MT	CO	
83	JAN6229	9150M	400	8.900G - 9.400G	.001	5000	.70			MG	OS	MT	WA	1.5
84	MXM50	9150M	400	8.800G - 9.500G	.002	2200	1.3			MG	OS	MT	CO	
85	MXM32	9150M	500	8.800G - 9.500G	.002	2300	1.5			MG	OS	MT	CO	
86	L3379	9150M	1000 †	8.800G - 9.500G	.003	3500	1.3			MG	OS	MT	WA	1.37 Δ
87	MXM28	9150M	1000	8.900G - 9.400G	.002	2600	2.0			MG	OS	MT	WA	.56
88	L3380	9150M	2000 †	8.800G - 9.500G	.002	3600	2.6			MG	OS	MT	WA	1.37 Δ
89	L3381	9150M	3000 †	8.800G - 9.500G	.001	3800	3.5			MG	OS	MT	WA	1.37 Δ
90	L3382	9150M	4000 †	8.800G - 9.500G	.001	4200	4.0			MG	OS	MT	WA	1.37 Δ
91	MXM57	9150M	7000	8.900G - 9.400G	.001	6500	4.5			MG	OS	MT	WA	
92	6273	9150M	8000	9.100G - 9.200G	.002	700	4.5			MG	OS	FF	WA	
93	6819	9150M	8000							MG	OS			3.0
94#	JP9-2.5K	9.155G	3.0k	9.145G-9.165G	1.0m	3.8k	3.5			MG	OS	FF	WA	2.2
95	L3218	9160M	120 †	9.150G - 9.170G	.027	920	.60			MG	OS	MT	WA	1.0 Δ
96	JP9-7G	9165M	10000	9.150G - 9.180G	.002	5900	6.0			MG	OS	FF	WA	3.09
97	JP9-15G	9.165G	21k	9.15G-9.18G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.74
98#	JP9-22D	9.170G	25k	9.140G-9.200G	1.5m	8.5k	9.5			MG	OS	FF	WA	3.3
99#	M5010	9170M	225000	9.130G - 9.210G	.001	23000	27.5			MG	OS	FF	WA	10.5
100	L3226	9190M	120 †	9.180G - 9.200G	.027	920	.60			MG	OS	MT	WA	1.0 Δ
101#	JP9-2.5N	9190M	3000	9.180G - 9.200G	.001	3800	3.5			MG	OS	FF	WA	2.2
102	MA215	9.2G	100 †	8.8G-9.6G*	250m	900	500m			MG	OS	FF	WA	1.25
103	MXM26	9200M	150 †	8.900G - 9.500G	.002	1300	1.0			MG	OS	MT	WA	
104	MXM16	9200M	1000	8.800G - 9.600G	.002	2800	1.9			MG	OS	MT	CO	
105	MXM33	9200M	1000	8.900G - 9.500G	.002	2600	1.7			MG	OS	MT	CO	
106	MXM46	9200M	1000	8.800G - 9.600G	.002	2900	2.1			MG	OS	MT	CO	
107	L3180	9210M	120 †	9.200G - 9.220G	.027	920	.60			MG	OS	MT	WA	1.0 Δ
108	JP9-2.5B	9225M	3000	9.190G - 9.320G	.001	3800	3.5			MG	OS	FF	WA	2.25
109#	YJ1000/JP9-2.5B	9225M	3000	9.190G - 9.320G	.001	3800	3.5			MG	OS	FF	WA	2.2
110	JPG9-02B	9240M	30	9.000G - 9.480G	.05	1150	.16			MG	OS	MT	WA	1.63

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	M508	9.24G	8.0k	9.21G-9.27G	2.5m	6.0k	5.5			MG	OS	FF	WA	3.25 *
2#	JP9-22R	9.240G	25k	9.210G-9.270G	1.5m	8.5k	9.5			MG	OS	FF	WA	3.3
3	JAN2J56	9240M	40000	9.215G - 9.275G	.001	13000				MG	OS		WA	4.0
4#	JP9-80A	9.240G	80k	9.210G-9.270G	1.0m	16k	15			MG	OS	FF	WA	5.9
5#	M5007	9240M	225000	9.210G - 9.270G	.001	23000	27.5			MG	OS	FF	WA	10.5
6#	CV2473	9240M	250k	9.210G - 9.270G	.001	23000	27.5			MG	OS	FF	WA	9.92
7	JP9-250F	9240M	250000	9.210G - 9.270G	.001	2300	27.5			MG	OS	FF	WA	9.92
8#	2J56/JP9-50	9245M	40000	9.215G - 9.275G	.001	16000	16			MG	OS	FF	WA	3.7
9#	CV2852	9245M	50000 △	9.215G - 9.275G	.001	13500	15			MG	OS	FF	WA	3.74
10#	CV5235	9245M	50000	9.215G - 9.275G	.001	13500	15			MG	OS	FF	WA	3.74
11#	CV6214	9250M	50 △	9.000G - 9.500G	.004	1350	1.1			MG	OS	MT	CO	.507
12#	YJ1090	9250M	50 △	9.000G - 9.500G	.004	1350	1.1			MG	OS	MT	CO	.50
13	MXM14	9250M	100	8.900G - 9.600G	.002	1225	.90			MG	OS			
14#	CV6215	9250M	180	9.0G-9.5G	4.0m	1.35k	1.1			MG	OS	MT	CO	.500
15	YJ1100	9250M	180	9.000G - 9.500G	.004	1350	1.1			MG	OS	MT	CO	.507
16	MXM22	9250M	1000	8.900G - 9.600G	.002	2600	2.0			MG	OS	MT	WA	
17	MXM24	9250M	2500	8.900G - 9.600G	.002	3300	3.5			MG	OS	MT	WA	
18	YJ1000	9255M	2500	9.190G - 9.320G	.001	3400	3.0			MG	OS	FF	WA	
19	L3181	9260M	120 †	9.250G - 9.270G	.027	920	.60			MG	OS	MT	WA	1.0 △
20	L3187	9260M	120 †	9.250G - 9.270G	.027	910	.60			MG	OS	MT	WA	1.0 △
21	6275	9272M	8000	9.200G - 9.344G	.002	5700	4.5			MG	OS	FF	WA	
22	6444F4	9300M	1.0	9.200G - 9.399G	CW	500	.015			MG	OS	FF	CO	
23#	CV8269	9300M	10	9.050G - 9.600G	.05	1100	.10			MG	OS	MT	WA	1.5
24	JPT9-01D	9300M	10	9.050G - 9.600G	.05	1100	.10			MG	OS	MT	WA	1.5
25#	CV6114	9300M	17	9.150G - 9.500G	.05	1140	.15			MG	OS	MT	WA	1.5
26	JPT9-02E	9300M	17	9.150G - 9.500G	.05					MG	OS	MT	WA	1.5
27	7445	9300M	100	9.100G - 9.500G	.002	1300	.90			MG	OS	MT		
28	L3087A	9300M	120 †	9.280G - 9.320G	.027	910	.60			MG	OS	MT	WA	1.0
29	MA263	9.3G	300	9.2G-9.4G	1.0m	1.15k	1.0			MG	OS	FF	WA	
30	L3603	9.3G	500 †	9.27G-9.33G*	10m	1.5k	1.5			MG	OS	FF	WA	1.37 △
31	L3606	9.3G	500 †	9.27G-9.33G*	10m	1.4k	1.5			MG	OS	FF	WA	630m△
32	MXM45	9300M	750	9.000G - 9.600G	.002	2500	1.7			MG	OS	MT	WA	
33	L3384	9300M	1000 †	9.280G - 9.320G	.003	2900	1.5			MG	OS	MT	WA	1.0 △
34	L3429	9.3G	1.0k†	9.27G-9.33G*	5.0m	1.5k	2.5			MG	OS	FF	WA	1.37 △
35	L3604	9.3G	1.0k†	9.27G-9.33G*	3.0m	2.9k	1.5			MG	OS	FF	WA	1.37 △
36	L3812	9.3G	1.0k†	9.27G-9.33G*	5.0m	1.5k	2.2			MG	OS	FF	WA	1.0 △
37	MXM44	9300M	1000	9.000G - 9.600G	.002	2600	2.0			MG	OS	MT	WA	
38	L5104	9300M	1.2k†	9.290G - 9.310G	.01	900	.60			MG	OS	MT	WA	1.0 △
39	MXM54	9300M	1350	9.000G - 9.600G	.002	3000	2.5			MG	OS	MT	WA	
40	MXM55	9300M	1900	9.250G - 9.350G	.002	3300	3.0			MG	OS	MT	WA	
41	L3239	9300M	2000 †	9.270G - 9.330G	.002	3550	2.5			MG	OS	FF	WA	1.37 △
42	MXM30	9300M	2000	9.250G - 9.350G	.002	3150	3.0			MG	OS	MT	WA	
43	L3605	9.3G	3.0k†	9.27G-9.33G*	1.0m	3.7k	3.5			MG	OS	FF	WA	1.37 △
44	L3695	9300M	200k†	9.000G - 9.600G	.001	23000	27.5			MG	OS	MT	WA	12 △
45#	MAG12A	9.305G	2.0k	9.275G-9.335G	700u	2.1k	3.0			MG		FF	WA	2.0 △
46	JAN2J41	9310M	3600	9.300G - 9.320G	.003	3000	1.2			MG	OS	MT	WA	
47	JAN2J48	9315M	40000	9.310G - 9.320G	.002	16000	16			MG	OS	FF	WA	
48#	TH1725D	9315M	40000 †	9.295G - 9.335G	.001	16000	16			MG	OS	FF	WA	2.06
49	L3238	9340M	1000 †	9.310G - 9.370G	.003	2950	1.5			MG	OS	FF	WA	1.37 △
50#	M5042	9.345G	100k△	9.315G-9.375G	1.5m	19k	20			MG	OS	FF	WA	6.5 *
51	MXM56	9350M	10	9.300G - 9.400G	.002	570	.25			MG	OS	MT	WA	
52	MXM48	9350M	500	9.100G - 9.600G	.002	2400	1.7			MG	OS	FF	CO	
53#	CV2420	9375M	10	9.150G - 9.600G	CW	1150	.10			MG	OS	MT	WA	1.5
54#	JP9-01	9375M	10	9.345G - 9.405G	CW	1100	.06			MG	OS	FF	WA	.992
55	JPT9-01	9375M	10	9.150G - 9.600G	CW	1150	.10			MG	OS	MT	WA	1.5
56	MXM36	9375M	10	9.275G - 9.475G	.004	555	.50			MG	OS	FF	WA	
57#	2J42/JP9-7	9.375G	18	9.345G-9.405G*	2.5m	6.0k	5.5			MG	OS	FF	WA	
58	8543	9.375G	30	9.345G-9.405G*	1.0m	9.0k	8.25m			MG	OS	FF	WA	3.75
59	JAN2J53	9.375G	40 †	9.345G-9.405G	1.2m	16k	16			MG		FF	WA	
60	MXM11	9375M	100	9.000G - 9.500G	.002		.80			MG	OS			
61	L3616	9.375G	120 †	9.35G-9.4G	27m	900	650m			MG	OS	MT	WA	1.0 △
62	JAN4J50	9375M	225 †	9.345G - 9.405G	.001	23000	27.5			MG	OS	FF	WA	10 △
63	MXM10	9.375G	800	9.345G-9.405G	400u	2.8k	1.5			MG	OS	FF		
64	MXM20	9375M	1000	9.345G - 9.405G	.002	2600	2.0			MG	OS	FF		
65	MXM21	9375M	2500	9.345G - 9.405G	.002	3000	4.0			MG	OS	FF		
66	MXM34	9375M	2500	9.345G - 9.405G	.002	3000	4.0			MG	OS	FF	WA	
67	MXM15	9.375G	3.0k	9.345G-9.405G	1.5m	2.8k	5.2			MG	OS	FF		
68	MXM12	9.375G	3.5k	9.345G-9.405G	400u	3.7k	4.3			MG	OS	FF		
69	MA222	9.375G	7.0k†	9.345G-9.405G	2.0m	5.5k	4.5			MG	OS	FF		
70#	CV3676	9.375G	7.5k†	9.345G-9.405G	2.5m	6.0k	5.5			MG	OS	FF	WA	3.09
71#	CV1866	9375M	8000	9.345G - 9.405G	.002	6000	6.0			MG	OS	FF	WA	3.06
72#	JP9-7C	9375M	8000	9.345G - 9.405G	.002	6000	6.0			MG	OS	FF	WA	3.09
73#	JP9-7M	9375M	8000	9.345G - 9.405G	.002	5300	4.5			MG	OS	FF	WA	3.09
74#	CV8505	9.375G	14k	9.345G-9.405G	1.5m	6.3k	6.5			MG	OS	FF	WA	3.75
75#	YJ1040	9375M	14000	9.345G-9.405G	1.5m	7500	6.5 △			MG	OS	FF	WA	3.75
76	L4242	9.375G	15k	9.345G-9.405G	2.5m	7.2k	7.5			MG	OS	FF	WA	5.0
77#	CV3997	9.375G	18k	9.345G-9.405G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.74
78#	CV5123	9.375G	18k	9.345G-9.405G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.74
79#	JP9-15C	9.375G	18k	9.345G-9.405G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.7
80	L3431	9.375G	18k†	9.345G-9.405G*	1.0m	8.0k	8.0			MG	OS	FF	WA	3.75 △
81	L4380	9.375G	18k†	9.345G-9.405G*	1.0m	8.0k	8.0			MG	OS	FF	WA	3.75 △
82	JAN6027	9.375G	20k△		2.5m	8.0k	8.0			MG	OS	FF	WA	5.0 △
83	L3513	9.375G	20k†	9.345G-9.405G*	1.0m	8.0k	8.5			MG	OS	FF	WA	3.75 △
84#	YJ1112	9.375G	20k	9.345G-9.405G	1.5m	8.2k	9.0			MG	OS	FF	WA	
85#	CV6199	9.375G	22k△	9.345G-9.405G	1.5m	7.7k	7.5			MG	OS	FF	WA	2.65
86#	YJ1050	9.375G	22k△	9.345G-9.405G	1.5m	7.7k	7.5			MG	OS	FF	WA	2.6
87	MXM43	9375M	24000	9.345G - 9.405G	.001	9000	9.3			MG	OS	FF	WA	
88#	MAG16B	9375M	25000 △	9.345G - 9.405G	.001	8600	9.0			MG	OS	FF	WA	3.0
89#	MAG18B	9375M	25000 △	9.345G - 9.405G	.001	8600	9.0			MG	OS	FF	WA	3.0
90	L3168	9.375G	30k†	9.345G-9.405G*	2.0m	12.5k	10			MG	OS	FF	WA	6.5 △
91#	M5003	9375M	35000	9.345G - 9.405G	.001	13000	12			MG	OS	FF	WA	5.25 *
92#	TH1725C	9375M	36000 †	9.275G - 9.475G	.001	15000	15			MG	OS		WA	2.06
93	JAN730A	9375M	40000 △	9.345G-9.405G	1.0m	16000	16			MG	OS	FF	WA	
94#	CV722	9375M	40000	9.345G - 9.405G	.001	16000	16			MG	OS	FF	WA	1.4
95#	M4505D	9375M	40000	9.345G - 9.405G	.001	16000	16			MG	OS	FF	WA	5.6
96#	TH1725A	9.375G	40k†	9.345G-9.405G	1.0m	15k	15			MG	OS	FF	WA	2.06
97#	CV9424	9.375G	45k△	9.345G-9.405G	2.5m	15k	13			MG	OS	FF	WA	4.19
98#	JP9-50A	9375M	50000	9.345G - 9.405G	.001	13500	15			MG	OS	FF	WA	3.7
99#	M5045	9375M	50k	9.345G-9.405G	1.0m	16k	16			MG	OS	FF	WA	4.0
100#	YJ1201	9375M	50000 △	9.345G-9.405G	2.5m	13500	14			MG	OS	FF	WA	4.19
101	6972	9375M	65k△†	9.345G - 9.405G	.002	20000	18			MG	OS	FF	WA	4.63
102#	M5012	9375M	65000	9.350G - 9.400G	.001	16000	15			MG	OS	FF	WA	4.25
103#	4J52A/JP9-80	9.375G	70k†	9.345G-9.405G*	1.0m	16k	15			MG	OS	FF	WA	6.0
104#	CV5018	9375M	80000	9.345G - 9.405G	.001	16000	15			MG	OS	FF	WA	5.95
105#	JP9-80	9.375G	80k	9.345G-9.405G	1.0m	16k	15			MG	OS	FF	WA	5.875
106#	CV2373	9.375G	180k	9.325G-9.425G	500u	24k	25			MG	OS	FF	WA	9.92
107	JP9-180	9.375G	180k	9.325G-9.425G	500u	24k	25			MG	OS	FF	WA	9.92
108#	M502A	9.375G	180k	9.325G-9.425G	500u	23k	25			MG	OS	FF	WA	10 *
109	L4371	9.375G	200k†	9.3G-9.45G	1.3m	23k	30			MG	OS	MT	WA	10 △
110#	YJ1182	9.375G	205k	9.250G-9.500G	1.1m	24k	27.5			MG	OS	ST	WA	15

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION 1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	55030	9.375G	225k	9.345G-9.405G	2.0m	23k	27.5			MG	OS	FF	WA	
2	L3458	9375M	225k†	9.345G - 9.405G	.001					MG	OS		WA	10 △
3#	CV2284	9375M	250k	9.345G - 9.405G	.001	23000	27.5			MG	OS	FF	WA	9.92
4#	4J50/JP9-250	9375M	280k	9.345G - 9.405G	.002	24000	30			MG	OS	FF	WA	9.9
5#	TV303	9375M	1.0M	9.325G - 9.425G	.001	33000	60			MG	OS	FF		46
6	L3757	9385M	120	9.370G - 9.400G	.027	900	.60			MG	OS	MT	WA	1.0 △
7#	MAG8	9400M	.80 †	9.200G - 9.600G	.004	1050	.10			MG	OS	FF	WA	.19 △
8	MA213	9400M	5.0	8.800G - 10.00G	.25	500	.06			MG	OS	FF		
9	JPG9-01	9400M	10.5	9.150G - 9.600G	CW	1150	.06			MG	OS	MT	WA	1.5
10#	JPT9-01C	9400M	15	9.300G - 9.500G	.25	1100	.14			MG	OS	MT	WA	1.5
11#	JPT9-01K	9400M	15	9.300G - 9.500G	.25	1100	.14			MG	OS	MT	WA	1.5
12#	JPT9-01M	9400M	15	9.30G-9.50G	250m	1100	140m			MG	OS	MT	WA	1.5
13#	JPT9-01N	9400M	15	9.300G - 9.500G	.25	1100	.14			MG	OS	MT	WA	1.5
14#	CV2421	9400M	25	9.150G - 9.600G	.05	1150	.12			MG	OS	MT	WA	1.5
15#	CV5443	9400M	25	9.150G - 9.550G	.05	1150	.15			MG	OS	MT	WA	1.61
16#	JPG9-02	9400M	25	9.150G - 9.600G	.05	1150	.12			MG	OS	MT	WA	1.5
17#	JPG9-02C	9400M	25	9.150G - 9.550G	.05	1150	.15			MG	OS	MT	WA	1.63
18#	JPT9-02	9400M	25	9.150G - 9.600G	.05	1150	.12			MG	OS	MT	WA	1.5
19#	JPT9-02D	9400M	25	9.350G - 9.800G	.05					MG	OS	MT	WA	1.5
20	JAN7503	9400M	100 †	9.300G - 9.500G	.002	2000	1.15			MG	OS	MT	CO	.50
21	7028	9.41G	3.0k	9.345G-9.475G	1.0m	3.8k	3.0			MG	OS	FF	WA	
22#	M185	9410M	3000	9.380G - 9.440G	.001	3800	3.0			MG	OS	FF	WA	2.4
23#	9M64	9.410G	6000	9380M-9440M	2.5m	5000	5.0			MG	OS	FF	WA	2.2
24#	M182	9.41G	20k	9.38G-9.44G	2.5m	8.0k	8.0			MG	OS	FF	WA	3.5
25#	YJ1113	9.410G	21k	9.380G-9.440G	1.5m	7.2k∅	7.5			MG	OS	FF	WA	
26#	9M72A	9410M	25k	9.380G-9.440G	1.0m	8.0k	8.0			MG	OS	FF	WA	3.0
27#	E3509	9410M	25k	9.380G-9.440G	2.0m	7.8k	7.0			MG	OS	FF	WA	
28#	M1263	9410M	25k	9380M-9440M	2.0m	8.3k	8.0			MG	OS	FF	WG	3.5
29#	MAG16A	9410M	25000 △	9.380G - 9.440G	.001	8600	9.0			MG	OS	FF	WA	3.0
30#	MAG18A	9410M	25000 △	9.380G - 9.440G	.001	8600	9.0			MG	OS	FF	WA	3.0
31#	CV3982	9410M	45000 †	9.360G - 9.460G	.001	12500	12			MG	OS		WA	1.75 §
32#	MAG5	9410M	50000	9.360G - 9.460G	.001	20000	15			MG	OS	FF	WA	1.75 §
33#	MAG9	9.41G	59k†	9.335G-9.485*	1.0m	15k	15			MG	OS	MT	WA	2.0
34#	MAG11	9410M	65000	9.360G - 9.460G	.001	16500	15			MG	OS	FF	WA	1.75 §
35#	MAG2	9.425G	45k†	9.35G-9.5G	500u	15k	12			MG	OS		WA	1.75 §
36#	TH1725E	9435M	40000 †	9.415G - 9.455G	.001	16000	16			MG	OS	FF	WA	2.06
37#	YJ1123	9.438G	26k	9.415G-9.460G	1.5m	8.5k	10			MG	OS	FF	WA	3.0
38#	CV10758	9445M	3000 △	9.415G - 9.475G	.001	3800	3.5			MG	OS	FF	WA	2.25
39#	JP9-2.5L	9445M	4000	9.415G-9.475G	1.0m	3800	3.5 △			MG	OS	FF	WA	2.24
40#	JP9-2.5M	9445M	4.0k	9.415G-9.475G	1.0m	3.8k	3.5			MG	OS	FF	WA	2.25
41#	JP9-15B	9445M	20000	9.415G - 9.475G	.002	8200	9.0			MG	OS	FF	WA	3.7
42#	YJ1111	9.445G	20k	9.415G-9.475G	1.5m	8.2k	9.0			MG	OS	FF	WA	3.3
43#	M591B	9.445G	21k	9.415G-9.475G	2.5m	8.0k	8.5			MG	OS	FF	WA	3.25 *
44#	YJ1290	9445M	65000	9.415G - 9.475G	.001	16000	16			MG	OS	FF	WA	4.6
45	6272	9450M	8000	9.400G - 9.500G	.002	5700	4.5			MG	OS	FF	WA	
46#	MAG16	9455M	25000 △	9.435G - 9.475G	.001	8600	9.0			MG	OS	FF	WA	3.0
47#	MAG18	9455M	25000 △	9.435G - 9.475G	.001	8600	9.0			MG	OS	FF	WA	3.0
48#	9M50	9.455G	40k†	9.44G-9.47G	1.2m	12k∅	12 ∅			MG	OS	FF	WA	1.3 §
49	55029	9.455G	225k	9.405G-9.505G	2.0m	23k	27.5			MG	OS	FF	WA	
50#	JP9-22L	9.475G	25k	9.450G-9.500G	1.5m	8.5k	9.5			MG	OS	FF	WA	3.3
51#	JP9-22B	9.490G	25k	9.460G-9.520G	1.5m	8.5k	9.5			MG	OS	FF	WA	3.3
52	6444F3	9500M	1.0	9.400G - 9.599G	CW	500	.015			MG	OS	FF	CO	
53	MA204	9500M	1.0	9.000G - 10.00G	CW	600	.015			MG	OS	MT		
54	L4450	9525M	11000	9.050G - 10.00G	.001	5000	9.0			MG	OS	MT	WA	3.5 △
55#	CV6034	9545M	75000	9.500G - 9.590G	.001	18000	20			MG	OS		WA	7.5
56	L3436	9550M	100 †	9.520G - 9.580G	.027	925	.60			MG	OS	FF	WA	1.37 △
57	JP9-2.5C	9550M	3000	9.520G - 9.580G	.001	3800	3.5			MG	OS	FF	WA	2.25
58	6270	9550M	8000	9.500G - 9.600G	.002	5700	4.5			MG	OS	FF	WA	
59	6822	9550M	8000							MG	OS			3.0
60	JP9-7B	9.555G	7.5k	9.525G-9.585G	2.5m	6.0k	5.5			MG	OS	FF	WA	3.0
61#	CV6035	9.6G	75k	9.555G-9.645G	1.0m	18k	20			MG	OS		WA	7.5
62	L5207	9.625G	200	8.775G-10.475G	500m	5.000k	700m			MG	OS	MT	WA	18.0
63#	CV2114	9.625G	50k	9.59G-9.66G	500u	16.5k	10			MG	OS		WA	2.0 △
64	MXM29	9650M	3000	9.300G - 10.00G	.002	3500	4.0			MG	OS	MT	WA	
65	MA209	9650M	7000	9.300G - 10.00G	.002	6000	5.0			MG	OS	MT	WA	2.37
66	MA209A	9650M	7000 †	9.300G - 10.00G	.002	5800	4.5			MG	OS	MT	WA	
67	MA209B	9650M	7000 †	9.300G - 10.00G	.002	5800	4.5			MG	OS	MT		
68	MA218	9650M	7000 †	9.300G - 10.00G	.002	5800	4.5			MG	OS	MT		2.75
69	MXM31	9650M	7500	9.300G - 10.00G	.002	5800	4.5			MG	OS	MT	WA	
70#	JP9-22C	9.65G	25k	9.62G-9.68G	1.5m	8.3k∅	8.0 ∅			MG	OS	FF	WA	3.3
71#	YJ1124	9.650G	26k	9.620G-9.680G	1.5m	8.5k	10			MG	OS	FF	WA	3.0
72#	CV6036	9655M	75000	9.610G - 9.700G	.001	18000	20			MG	OS		WA	7.5
73#	MAG10A	9.665G	40k	9.59G-9.742G*	500u	15k	10			MG	OS	MT	WA	2.0
74#	CV214	9.675G	45k	9.650G-9.700G	500u	17.5k	10			MG	OS		WA	2.0 △
75	6444F2	9700M	1.0	9.600G - 9.799G	CW	500	.015			MG	OS	FF	CO	
76#	CV2113	9.7G	50k	9.66G-9.74G	500u	16.5k	10			MG	OS		WA	2.0 △
77	Z5429	9750M	.001 †	8.500G - 11.00G	CW	2000				MG	OS	VT	CO	4.0
78#	E3276	9750M	3.0k	8.50G-11.00G	1.0m	2300	7.0			MG	OS	FF	WA	1.4
79#	E3072	9750M	3.5k	8.50G-11.00G	1.5m	2500	7.0			MG	OS	FF	WA	1.4
80#	M546	9.775G	225k	9.7G-9.85G	1.0m	23k	27.5			MG	OS	FF	WA	10.5 *
81#	CV2112	9.78G	50k	9.74G-9.82G	500u	16.5k	10			MG	OS		WA	2.0 △
82	L4264	9.8G	20k†	9.6G-10G	1.5m	8.0k	10			MG	OS	MT	WA	5.0 △
83#	MAG10	9.815G	50k	9.74G-9.89G*	500u	15k	10			MG	OS	MT	WA	2.0
84#	CV2111	9.855G	50k	9.82G-9.89G	500u	16.5k	10			MG	OS		WA	2.0 △
85	6444F1	9900M	1.0	9.800G - 10.00G*	CW	500	.015			MG	OS	FF	CO	
86#	M547	9925M	225000	9.850G - 10.00G	.001	23000	27.5			MG	OS	FF	WA	10.5 *
87	L3434	9.95G	100 †	9.92G-9.98G*	27m	925	600m			MG	OS	FF	WA	1.37 △
88#	E3320	10.000G	300	9.000G-11.000G	10m	900	1.0			MG	OS	MF	CO	560m
89	JANQK427	10150M	10 †	10.05G - 10.25G	CW	1400	.115			MG		FF		3.63
90#	M1207	13.325G	40	13.280G-13.370G	250m	800	240m			MG	OS	FF	WA	1.55
91	L3759	15.55G	60k†	15.45G-15.65G*	1.0m	17k	16			MG	OS	FF	WA	6.0 △
92	L3326	16G	60k†	15.85G-16.15G*	1.0m	18k	16			MG	OS	FF	WA	6.5 △
93#	7452-QKH324	16G	70k	15.840G-16.160G	2.2m	24k	12			MG	OS	FF	WA	24.3
94	L3452	16200M	2200 †	16.12G - 16.27G	.003	3800	3.0			MG	OS	FF	WA	1.31 △
95	L3496	16.25G	1.0k†	16G-16.5G	1.5m	3.1k	2.0			MG	OS	MT	WA	1.12 △
96	MA276	16.25G	1.0k	16.225G-16.275G	1.0m	3.0k	1.6			MG	OS	MT	WA	
97	L3916	16250M	4000	16.00G - 16.50G	.001	3300	5.0			MG	OS	MT	WA	1.25 △
98	MA256	16250M	10000	16.00G - 16.50G	.001	9000	5.25			MG	OS	FF	WA	
99	L3383	16275M	1000 †	16.25G - 16.30G	.003	3100	2.5			MG	OS	MT	WA	1.28 △
100	L3498	16300M	2000 †	16.28G - 16.32G	.003	3650	3.0			MG	OS	MT	WA	1.28 △
101#	YJ1430	16500M	10000	16.4G-16.6G	1.0m	9000	5.25			MG	OS	FF	WA	1.25
102	L3816	16.5G	25k†	16.35G-16.65G*	2.0m	13k	12			MG	OS	FF	WA	5.5 △
103	L5187	16500M	30000	16.00G - 17.00G	.001	12500	11			MG	OS	DT	WA	4.0
104#	E3260	16.500G	34k	16.350G-16.650G	8.0m	11.5k	13			MG	OS	FF	WA	6.62
105	YJ1140	16500M	45000	16.35G - 16.65G	.002	13000	17			MG	OS	FF	WA	5.95
106	L3083A	16.5G	60k†	16G-17G*	1.0m	17k	16			MG	OS	MT	WA	6.0
107	L3101	16500M	60000 †	16.00G - 17.00G	.001	18000	16			MG	OS	MT	WA	5.5 △
108#	YJ1320	16.500G	60k	15.900G-17.100G	1.0m	16.5k	15			MG	OS	ST	WA	7.0
109#	YJ1320/JPS16-60	16.5G	60k	15.9G-17.1G	500u	15.5k∅	15			MG	OS	MT	WA	
110#	YJ1321	16.500G	60k	15.900G-17.100G	1.0m	16.5k	15			MG	OS	ST	WA	7.0

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1	L3874	16500M	66000 †	16.00G - 17.00G	.001	18000	16			MG	OS	MT	WA	5.5 △
2	L5027	16500M	66000	16.00G - 17.00G	.001	16000	16			MG	OS		CO	4.0 △
3	JAN8468	16500M	75000	16.00G - 17.00G	.001	17000	18			MG	OS	MT	WA	7.5 △
4	L3950	16.5G	75k†	16.4G-16.6G*	1.2m	18k	16			MG	OS	FF	WA	6.0
5	L3951	16.5G	75k†	16G-17G	1.2m	18k	16			MG	OS	MT	WA	6.5 △
6#	TV325	16500M	75000	16.00G - 17.00G	.001	16000	16			MG	OS	MT		7.0
7	L4328A	16500M	90000 †	15.50G - 17.50G	.001	18000	19			MG	OS	MT	WA	10 △
8	L3976	16.5G	110k†	16.35G-16.65G*	1.2m	18k	18			MG	OS	FF	WA	6.0
9	BLM068	24G	25k	24G	500u					MG	OS	FF	WA	280m
10	L4316	24G	25k†	23.8G-24.3G*	700u	15k	12.5			MG	OS	FF	WA	4.0 △
11#	24M10	24G	50k	23.76G-24.24G	250u	13k	18			MG	OS	FF	WA	
12#	33M10	32.6G	40k	32.274G-32.926G	250u	13k	18			MG	OS	FF	WA	
13	YJ1020	32.6G	40k	31.8G-33.4G	300u	13.5k	16			MG	OS	FF	WA	4.19
14	YJ1021	32.6G	40k	31.8G-33.4G	300u	13.5k	16			MG	OS	FF	WA	4.19
15	MA224	33.2G	32k†	33G-33.4G	250u	12k	20			MG	OS	FF		10.5
16	MA206	34.85G	20k	34.7G-35G	500u	13k	10			MG	OS	FF	WA	10.5
17	JAN7361	34.85G	40k△	34.7G-35G	600u	14k	25			MG	OS	FF	WA	10.5
18	L4306	34850M	110k†	34.70G - 35.00G	.001	21000	30			MG	OS	MT	WA	9.0 △
19	L4218	34.86G	25k†	34.512G-35.208G	600u	13k	20			MG	OS	FF	WA	4.05 △
20#	JP35-30	34.86G	30k	34.512G-35.208G	300u	15.5k	16			MG	OS	FF	WA	4.2
21#	35M10	34.86G	40k	34.512G-35.208G	250u	13k	16			MG	OS	FF	WA	11
22#	M5106	34900M	10k	34.40G-35.40G	1.6m	12k	7.0			MG	OS	FF	WA	4.5
23#	MG9T3	34900M	40k†	34400M-35400M	500u	13	13			MG	OS	FF	WG	7.0
24	8153	35G	60k	34.512G-35.208G	500u	17k	17.5			MG	OS	FF	WA	8.8
25#	M5095	35250M	8.0k	35.00G-35.50G	1.8m	12.5k	9.0			MG	OS	MT	WA	4.5
26	MA275	36G	500	35.75G-36.25G	1.0m	3.0k	1.1			MG	OS	MT	WA	
27#	50M10	50G	20k	49G-51G	250u	12k	9.5			MG	OS	FF	WA	13
28#	60M10	60G	10k	58.8G-61.2G	500u	13k	16			MG	OS	FF	WA	
29	DX164	73.7G	10k	73.2G-74.2G	200u	13k	10			MG	OS	FF	WA	
30	DX287	94.5G	10k	93G-96G	200u	10k	18			MG	OS	FF	WA	16
31	DX252	120G	2.5k	120G	200u	10k	11k			MG	OS	FF	WA	
32#	9M42		9.0k	9.345G-9.405G	2.5m	6.0k	5.5			MG†	OS	MT	WA	
33#	MAG3		14k	9.345G-9.405G	2.5m	6.1k	7.2			MG†	OS	FF	WA	3.0
34#	2M34	2.450M	885	2.440G-2.460G	CW	4000	350m			MG†	OS	FF	WA	3.8
35#	2M52	2.45G	750	2.42G-2.48G	CW	4.5k	350m			MG†	OS	FF	CO	6.6
36#	M4520B	2.45G	750	2.42G-2.48G	CW	4.5k	350m			MG†	OS	FF	CO	
37#	M4545	2450M	760	2.420G - 2.480G	CW	4500	.35			MG†	OS	FF	CO	6.7
38#	2M71	2450M	885	2.440G-2.460G	CW	4000	350m			MG†	OS	FF	WA	4.4
39#	TV1022C	2450M	1000	2.415G - 2.485G	CW	1800	1.0			MG†	OS	FF	WA	18.7
40#	M5082	2.450G	1300	2.420G-2.480G	CW	3650	650m△			MG†	OS	FF	WA	7.0
41#	TV1022A	2450M	1350	2.415G - 2.485G	CW	2350	.85			MG†	OS	FF	WA	18.7
42#	TV1022B	2450M	1350	2.415G - 2.485G	CW	2350	.85			MG†	OS	FF	WA	18.7
43#	H3025	2450M	1600	2.430G-2.470G	CW	4000	800m			MG†	OS	FF	WA	6.6
44#	M159	2.825G	1.5M†	2.75G-2.9G	700u	55kØ	86 Ø			MG†	OS	MT	WA	66
45#	5M35	5300M	200k†	5.250G - 5.350G	.001	21500 Ø	25 Ø			MG†	OS	MT	WA	24
46#	5M10	5.3G	350k†	5.27G-5.33G	1.0m	23.5kØ	35 Ø			MG†	OS	FF	WA	13
47	JAN7950	9.05G	250k	8.5G-9.6G	1.5m	40k	30			MG†	OS	MT	WA	16
48	JAN8864	9.075G	180k	8.625-9.525	1.1m	24k	27.5			MG†	OS	MT	WA	14.3
49	CV370	9.24G	7.7k†	9.21G-9.27G	2.5m	6.0k	5.5			MG†	OS	FF	WA	3.25 *
50#	M4527D	9.375G	5.0	9.345G-9.405G	2.5m	5.0k	5.0			MG†	OS	FF	WA	22
51#	M4527E	9.375G	5.0	9.345G-9.405G	2.5m	5.0k	5.0			MG†	OS	FF	WA	22
52#	9M10	9375M	2500 †	9.345G - 9.405G	.001	3450 Ø	2.5 Ø			MG†	OS	FF	WA	4.2
53#	MAG4A	9.375G	17.5k	9.342G-9.405G	2.5m	8.0k	7.5			MG†	OS		WA	5.0 △
54#	9M27	9.375G	20k	9.345G-9.405G	2.5m	8.0k	8.0			MG†	OS	MT	WA	
55#	M4505G	9375M	40000 †	9.345G - 9.405G	.001	16000	16			MG†	OS	FF	WA	5.6
56#	9M55	9.375G	50k	9.345G-9.405G	1.0m	6.6k	16			MG†	OS	MT	WA	
57	JAN4J50A	9375M	225k△	9.345G - 9.405G	.001	23000	27.5			MG†	OS	FF	WA	10 △
58#	9M43	9.41G	9.0k	9.38G-9.44G	2.5m	6.0k	5.5			MG†	OS	MT	WA	
59#	9M28	9.41G	20k	9.38G-9.44G	2.5m	8.0k	8.0			MG†	OS	FF	WA	
60#	9M56	9.41G	50k	9.38G-9.44G	1.0m	16k	16			MG†	OS	MT	WA	
61#	M4502E	9.445G	9.0k	9.415G-9.475G	2.5m	6.0k	5.5			MG†	OS	FF	WA	3.1
62#	MAG7	9.6G	80k	9.2G-10G	1.0m	16k	15			MG†	OS		WA	6.0
63#	M199	915M	30k	890M-940M	CW	12.5k	2.8			MG#	OS	FF	CO	22.1
64#	M4534	915M	30000	900.0M - 930.0M	CW	14000	5.0			MG#	OS	FF	CO	16
65	JANQK264	1.285G	2.0k†	1.22G-1.35G	1.2m	60k	100			MG#	OS	MT		
66#	M1210B	2.450G	750	2.420G-2.480G	CW	4.0k	300m			MG#	OS	FF	CO	3.85
67#	YJ1160-JP2-2.5W	2.45G	2.5k	2.425G-2.475G	CW	5.0k	2.1			MG#	OS	FF	CO	11.2
68	YJ1190	2450M	5000	2.425G - 2.475G	CW	8000	2.7			MG#	OS	FF	CO	21.1
69#	7529-QKH327	2.775G	3.5m	2.700G-2.850G	1.0m	62k	115			MG#	OS	MT	WA	66.2
70#	6410A-QKH338A	2.805G	4.5m	2.750G-2.860G	1.0m	70k	130			MG#	OS	FF	WA	57.3
71#	VMS2800	2.805G	2.5M△	2.75G-2.86G	1.5m	36k	185			MG#	OS	FF	WA	11
72#	6406A-QKH428A	2.880G	1.75m	2.850G-2.910G	700u	52k	85			MG#	OS	FF	WA	41.9
73	JAN8834	2.880G	1.2k†	2.850G-2.910G	1.1m	11	90			MG#	OS	FF	CO	85 △
74#	M190	2.998G	2.0M	2.994G-3.002G	1.5m	43k	80			MG#	OS	MT	WA	18
75#	6402-QKH437	3.500G	700k	3.430G-3.570G	1.6m	47k	50			MG#	OS	MT	WA	66.2
76#	M4514C	9450M	1000	2.435G - 2.465G	CW	7000	1.4			MG#	OS	FF	CO	3.8
77#	2M61	2.45G	1.4k	2.4G-2.5G	CW	7.7k	350m			MGØ	OS	FF	CO	
78#	M4546	2.45G	1.4k	2.4G-2.5G	CW	7.7k	350m			MGØ	OS	FF	CO	
79#	M4514B	2.45G	2.5k	2.42G-2.48G	CW	8.0k	700m			MGØ#	OS	FF	CO	
80#	M5008	5.28G	840k	5.25G-5.31G	1.5m	36k	65			MGØ	OS	FF	WA	3.8 §
81#	M5009	5.48G	840k	5.45G-5.51G	1.5m	38k	65			MGØ	OS	FF	WA	3.8 §
82#	MCV1480	3050M	1.0M	2.900G-3.200G	2.2m	36k	80			MGC	OS	MT	WA	88
83	TV1544	3300M	1.0M	3.100G - 3.500G	.002	35000				MGC	OS	MT	WA	
84	SFD313	5.638G	1.0M†	5.45G-5.825G	1.1m	38k	65			MGC	OS	MT	WA	57 △
85	TV349	9.05G	200k	8.5G-9.6G	1.1m	23k	30			MGC	OS	MT	WA	13.5
86	SFD360	9.1G	200k†	8.6G-9.6G	1.1m	30k	30			MGC	OS	DT	WA	20 △
87	L5407	9250M	75k	9.0G-9.5G	1.1m	15k	15.0			MGC	OS	MT	WA	12.5
88#	MCF1464	9345M	65k	9.345G	1.1m	16k	16			MGC	OS	FF	WA	9.0
89#	YJ1220	9375M	150 △	9.325G - 9.425G	.02	900	2.0			MGC	OS	FF	CO	.374
90	L5112	15550M	2200 †	15.40G - 15.70G	.01	3600	3.1			MGC	OS	MT	WA	3.0 △
91	L5048	16.25G	1.0k	16G-16.5G	1.5m	3.1k	2.0			MGC	OS	MT	WA	1.25 △
92	BLM180	16.5G	35k†	16G-17G	800u	12kØ	11			MGC	OS	DT	WA	6.75
93	L4417	16500M	115000	15.50G - 17.50G	.001	18000	18			MGC	OS	MT	WA	6.0 △
94	L5029	17000M	30000	16.50G - 17.50G	.005	12500	10			MGC	OS	MT	WA	3.5 △
95	SFD315	24.035G	40k†△	23.8G-24.27G	500u	14kØ	12 Ø			MGIC	OS	FF	WA	28 △
96	SFD320	34.86G	40k†△	34.512G-35.208G	500u	14kØ	14 Ø			MGIC	OS	FF	WA	7.5 △
97	SFD301	34.86G	100k†△	34.512G-35.208G	500u	23kØ	22 Ø			MGIC	OS	FF	WA	23 △
98	SFD327	34.86G	150k†△	34.512G-35.208G	500u	23kØ	25 Ø			MGIC	OS	MT	WA	17.5 △
99	SFD330	34.9G	40k†△	34.512G-35.208G	500u	14kØ	14 Ø			MGIC	OS	MT	WA	7.5 △
100	ZM6063	950M	5.0 †	930.0M - 970.0M	CW	2000				MGVT	OS	VT	CO	
101	ZM6011	1500M	5.0 †	1.375G - 1.625G	CW	2000				MGVT	OS	VT	CO	
102	Z5424	3050M	50	2.900G - 3.200G	CW	2400				MGVT	OS	VT	CO	4.5
103	ZM6047	3050M	75	2.900G - 3.200G	CW	3200	.07			MGVT	OS	VT	WA	7.5
104#	1AM10	1.288G	1.8M	1.225G-1.35G	2.0m	46kØ	50 Ø	9.2		PL	AM		CO	9.5 §
105#	1AM90	1.3G	1.0M	1.25G-1.35G	2.5m	42k	45			PL	AM	FF	CO	
106#	MA606	1.300G	1.32k	1.250G-1.350G	CW	34k	37			PL#	AM		CO	
107#	8129-QKS622	3.000G	14k	2.900G-3.100G	CW	52k	62	6.0		PL#	AM		WA	115
108	VA126		3.0M	5.4G-5.9G	1.7m	135k	95	32		TWTØ	AM		WA	322 *
109	M2204B	9.25	10m	Any 1500 of X Band		1.3k	3.0m	25	30	TWT*	SER		CO	
110	VTX4226P1	9.255	20m	7.5G-11G	CW	§		24†	16*	TWT	AM		CO	3.5

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	E3808	620	2.4k	470-770	CW	7.0k	2.5	37		TWT	AMØ		CO	
2#	M4836	620	5.0k	470-770	CW	10k	4.0	32		TWT	AMØ		CO	
3	VTC4210P5	5.5k	20m	5.0G-6.0G	CW	§		38†	9.0*	TWT	AM		CO	8.0
4#	TH9134	300M	500 †	200.0M - 400.0M	CW	1900	1.4	18		TWTØ	AM		CO	8.8
5#	M4830	310M	450	170.0M - 450.0M	CW	4000	.90	35		TWT§	AM		CO	
6	STP234	375M	2.0 †	250.0M - 500.0M	CW	590	.90	37	35	TWT§	AM		CO	16
7	STP271	525M	250	350.0M - 700.0M	CW	1500	.96	40		TWTØ	AM		CO	35 *
8	VA134B	550M	5000	500.0M - 600.0M	.06	12000	2.5	33†		TWT*§	AM		CO	100
9	VTP5330A1	550M	5000 †Δ	500.0M - 600.0M	.06	12500 Ø	2.7 Ø	30†		TWT§#	AM		CO	100
10	W46D/1G	670M	1000	470.0M - 860.0M	CW	4000	1.5	32†		TWTØ	AM		CO	95 *
11	W46D/1T	670M	1000	470.0M - 860.0M	CW	4000	1.5	32†		TWTØ	AM		CO	95 *
12	MA2028	675M	10	450.0M - 900.0M	CW	700	.15	28		TWT	AM		CO	
13#	TV651G	675M	250	450.0M - 900.0M	CW	2500	75	30		TWT	AM		CO	
14	WJ278-9	700M	.0001 †	600.0M - 800.0M	CW	115 §Δ⧄		25†	3.2*	TWT†	AML		CO	17 Δ
15#	1W10	715M	40	660.0M - 770.0M	CW	2500	.27	26		TWT§	AM		CO	13.2
16#	VC723A	715M	200	660.0M - 770.0M	CW	3200	.80	33		TWT	AM		CO	40 *
17	WJ293	750M	.0034 †	500.0M - 1.000G	CW	115 §Δ⧄		25†	8.0*	TWT†	AML		CO	6.0 Δ
18	WJ404	750M	.0034 †	500.0M - 1.000G	CW	115 §Δ⧄		25†	8.5*	TWT†	AML		CO	14.5 Δ
19	VAL201T1	750M	.01	500.0M - 1.000G	CW	300	.002	25†	10*	TWT§	AML		CO	3.5
20	MA2308	750M	1.0	500.0M - 1.000G				30	30	TWT			CO	
21	MA2341	750M	1.0	500.0M - 1.000G				30	20	TWT§			CO	
22	MA2001	750M	200 †	500.0M - 1.000G	CW	2100	.66	28†		TWT	AM			
23	VA141A	750M	200 †	500.0M - 1.000G	CW	2100	.70	26†		TWTØ	AM		CO	125
24#	VC739A	750M	250	500.0M - 1.000G	CW	4000	.80	36.8		TWT	AM		CO	35.2 *
25#	M4803	750M	380	500.0M - 1.000G		3000 Ø	.60 Ø	35		TWT	AM			
26#	LD4022	800M	1.2k	750M-960M	CW	4100	1.2	32		TWTØ	AM		CO	45
27	A1387	875M	16	750M-1.0G	CW	1650	55m	30	23	TWT§	AM		CO	5.0
28	A1317	875M	20	750M-1.0G	CW	1650	60m	30	23	TWT§	AM		CO	5.0
29	MA2026	900M	5.0	600.0M - 1.200G	CW	450	.10	33		TWT*	AM		CO	4.0
30	MA2006C	1050M	300	700.0M - 1.400G				30		TWT	AM		CO	12
31	MA2006	1050M	400	700.0M - 1.400G	CW	2100	.85	27		TWT	AM		CO	
32	VAL201P2	1113M	.01	775.0M - 1.450G	CW	120 Δ§		28†	11*	TWT§	AML		CO	3.5
33	VAL201T2	1113M	.01	775.0M - 1.450G	CW	300	.002	28†	11*	TWT§	AML		CO	3.5
34	VTL4201P1	1.113G	10m	775M-1.45G	CW	§		28†	15*	TWT	AM		CO	10
35	VTL4901P1	1.113G	10m	775M-1.45G	CW	§		28†	11*	TWT	AM		CO	15.5
36	A1350V1	1200M	.01 †	800.0M - 1.600G	CW	500	1.5m	30†	13*	TWT*§	AM		CO	4.0
37	VA644A	1200M	20000	1.000G - 1.400G	.005	26000	8.0	35		TWT†	AM		CO	
38	A1217	1250M	.0005 †	1.100G - 1.400G	CW	600	.15m	20†	5.0*	TWT*Ø	AML		CO	1.5
39	A1056	1250M	2.0m†	1.10G-1.40G	CW	200	370u	20†	9.5*	TWT*Ø	AML		CO	2.0
40	STL4441	1250M	2.5	750.0M - 1.500G	CW	600	.055	53	36	TWT§	AM		CO	2.75
41	A1056V2	1.3G	250u†	1.25G-1.35G	CW	600	210u	20†	4.5*	TWT*Ø	AML		CO	1.5
42	WJ397	1300M	.002 †	500.0M - 2.100G	CW	115 Δ⧄§		25†	7.0*	TWT†	AML		CO	17 Δ
43	411H	1300M	1.0	1.200G - 1.400G	CW	550	.028	43		TWT§	AM		CO	2.5 Δ
44#	F4061	1.300G	7.5	1.200G-1.400G	40m	1.000k	100m	20		TWT	AM		CO	5.0
45	A1368	1300M	20 †	1.20G-1.40G	CW	1600	60m	40†	22*	TWT§	AM		CO	5.0
46	J2046	1300M	20 †	1.20G-1.40G	CW	115 §Δ		40†	22*	TWT§	AM		CO	5.0
47#	F4063	1.300G	3.0k	1.200G-1.400G	2.0m	12k	4.5	28		TWT	AM		CO	10
48	VTL5340H1	1325M	5000 †Δ	1.250G - 1.400G	.06	11000 Ø	2.5 Ø	47†		TWT§#	AM		CO	65
49	VAL807T1	1350M	5000 †	1.200G - 1.500G	.03	11500	3.0	36†		TWT§	AML		CO	12
50	VAL817T6	1350M	5000	1.200G - 1.500G	.03	11000 Ø	3.0 Ø	50		TWT§	AM		CO	
51	F2075	1450M	2.0	1.100G - 1.800G	CW	1000	.04	45		TWT*§	AM			
52	WJ268-20	1485M	.0001 †	1.435G - 1.535G	CW	115 Δ⧄§		25†	4.0*	TWT†	AML		CO	17 Δ
53	MA2314	1500M	.002	1.000G - 2.000G				25	10	TWT			CO	
54	M2102F2	1500M	.005	1.000G - 2.000G	CW	500	.002	25	11	TWT§	AM		CO	
55	M2102F	1500M	.005	1.000G - 2.000G	CW	500	1.5m	25	11	TWT*§	AML		CO	
56	A1294	1500M	.01 †	1.000G - 2.000G	CW	500	1.5m	35†	12*	TWT*§	AM		CO	4.0
57#	F4123B	1500M	.01	1.000G - 2.000G	CW	300	.008	40	9.0	TWT§	AML		CO	2.0
58	MA2305	1500M	.01	1.000G - 2.000G				30	24	TWT			CO	
59	MA2326	1500M	.01	1.000G - 2.000G				30	25	TWT§			CO	
60	A1268	1500M	.10 †	1.000G - 2.000G	CW	600	.006	25†		TWT§	AM		CO	1.75
61	4021	1500M	1.0 †	1.000G - 2.000G	CW	900	.025	27†		TWT*§	AM		CO	4.5
62	L2318	1500M	1.0	1.000G-2.000G				30		TWT			CO	
63	L3845	1500M	1.0 †	1.000G - 2.000G	CW	575	.03	40		TWT*§	AM		CO	2.0 Δ
64	MA2318	1500M	1.0	1.000G - 2.000G				30		TWT			CO	
65	RW106A	1500M	1.0 †	1.000G - 2.000G	CW	900	.03	30	25	TWT	AM		CO	2.8 *
66	RW130	1500M	1.0 †	1.000G - 2.000G	CW	1000	.04	33	30	TWT	AM		CO	2.8 *
67	RW131	1500M	1.0 †	1.000G - 2.000G	CW	1000	.041	30	30	TWT	AM		CO	3.4 *
68	RW132	1500M	1.0 †	1.000G - 2.000G	CW	1000	.048	30	30	TWT	AM		CO	2.8 *
69	WJ1181-1	1500M	1.0 *	1.000G-2.000G	CW	230 §⧄†		30	30	TWT	AM		CO	16
70	WJ2500	1500M	1.0 †	1.00G-2.00G	CW	900	30m	40	25	TWT§*	AM		CO	3.5 Δ
71	WJ2500-1	1500M	1.0 †	1.000G-2.000G	CW	900	30m	30†	25	TWT	AM		CO	3.5 Δ
72	WJ2500-2	1500M	1.0 †	1.000G-2.000G	CW	850	30m	30†	25	TWT	AM		CO	3.5 Δ
73	WJ2510	1500M	1.0 †	1.00G-2.00G	CW	900	30m	40	25	TWT§*	AM		CO	3.5 Δ
74	410H	1500M	2.0	1.200G - 1.800G	CW	550	.028	36		TWT§	AM		CO	2.5 Δ
75	L2334	1500M	2.0	1.000G-2.000G				30	15	TWT§			CO	
76	MA2334	1500M	2.0	1.000G - 2.000G				30	15	TWT§			CO	
77	MA2346	1500M	5.0	1.000G - 2.000G				30	16	TWT§			CO	
78#	TOP1512	1500M	5.0	1.00G-2.00G	CW	1300	60m	30	25	TWT	AM		CO	2.0
79	4053	1500M	10 †	1.000G - 2.000G	CW	2200	.07	25†		TWT§*	AM		CO	6.5
80#	F4134	1500M	10	1.000G - 2.000G	CW	1600	.05	33	25	TWT§	AM		CO	2.82
81	MA2331	1500M	10	1.000G - 2.000G				30	20	TWT§			CO	
82	MA2339	1500M	10	1.000G - 2.000G				30	15	TWT§			CO	
83	RW125	1500M	10 †	1.000G - 2.000G	CW	1200	.05	33	25	TWT	AM		CO	3.4 *
84	M4446	1500M	100	1.000G - 2.000G	CW	2800	.35	30†	32*	TWT§	AM		CO	
85	M5627	1500M	100 †	1.000G - 2.000G	CW	3000	.37	40†		TWT§	AM		CO	7.0
86	M5670	1500M	200	1.000G - 2.000G	CW			35	35	TWT	AM		CO	
87#	TOP1109	1650M	.01	1.000G - 2.300G	CW	300	8.0	40†	9.0*	TWT	AM		CO	
88	218H	1.750G	20	1.500G-2.000G	CW	1.420k	73m	26		TWT§	AM		CO	1.25
89	WJ268-2	1800M	.0001 †	1.000G - 2.600G	CW	115 Δ⧄§		25†	5.5*	TWT†	AML		CO	17 Δ
90	M5223	1800M	.005 †	1.000G - 2.600G	CW	500	.002	20†	16*	TWT§	AM		CO	
91	M5356	1.8G	5.0m	1.0G-2.6G	CW	400	2.5m	30	12	TWT§	AM		CO	
92	WJ294-2	1800M	.005 †	1.000G - 2.600G	CW	115 Δ⧄§		25†	8.5*	TWT†	AML		CO	4.5 Δ
93	A1350	1800M	.01 †	1.000G - 2.600G	CW	500	1.5m	30†	12*	TWT*§	AM		CO	4.0
94	391H	1800M	.50	1.300G - 2.300G	CW	550	.022	30		TWT§	AM		CO	1.0 Δ
95	392H	1800M	80	1.200G - 2.400G	.02	3000	.40	33		TWT§	AM		CO	8.0 Δ
96	A1217V4	1820M	.0005 †	1.700G - 1.940G	CW	600	.15m	25†	5.0*	TWT*Ø	AML		CO	1.5
97	WJ370-3	1850M	.00008 †	1.400G - 2.300G	CW	115 §Δ⧄		20†	4.5*	TWT†	AML		CO	11
98	WJ268-24	1867M	.0001 †	1.435G - 2.300G	CW	115 §Δ⧄		25†	5.0*	TWT†	AML		CO	17 Δ
99	WJ374-1	1868M	.003 †	1.435G - 2.300G	CW	115 Δ⧄§		25†	5.0*	TWT†	AML		CO	17
100#	TOP1225	1900M	9.5	1.70G-2.10G	CW	1400	60m	35	25	TWT	AM		CO	2.0
101	419HD	1900M	20	1.40G-2.40G	CW		100m	30		TWT	AM	FF	CO	7.0
102	X3034	1900M	1100	1.700G - 2.100G	CW	13000	1.0	25		TWTØ	AM		CO	160 *
103	VTL4214P1	1.98G	10m	1.31G-2.65G	CW	§		27†	15*	TWT	AM		CO	10
104	314H	2.000G	2.5	1.500G-2.500G	CW	650	25m	33		TWT§	AM		CO	940mΔ
105	1080H	2.000G	15	1.900G-2.100G	CW	28 Ø§	5.0	23		TWT	AM			9.0 Δ
106#	M4805A	2000M	15	1.700G - 2.300G	CW	2700	.07	34		TWT§	AM		CO	
107	7642	2000M	18	1.7G-2.3G	CW	2250	70m	28		TWT§	AM		CO	6.5
108#	TWS10	2.000G	18 †	1.700G-2.300G	CW	2100	75m	30†	28	TWT§	AM		CO	6.75
109#	2W401	2000M	20	1.700G - 2.300G	CW	2700	.08	40*		TWT§	AM		CO	
110#	VC724A	2000M	20	1.700G - 2.300G	CW	3000	.06	32	27	TWT	AM		CO	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATHODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNCTION	TUNING	OUTPUT	WEIGHT (lb)
1#	TWS1	2000M	25	1.700G - 2.300G*	CW	2200	.035	35		TWTØ	AM		CO	.25 §
2	1112H	2.050G	8.8	1.700G-2.400G	CW					TWT	AM			20
3	1122H	2.050G	8.8	1.700G-2.400G	CW	115	2.5	34		TWT	AM		CO	20
4	412H	2050M	10 †	1.700G - 2.400G	CW	950	.027	35		TWT§	AM		CO	2.0 Δ
5	WJ445-1	2100M	1.0 †	2.000G - 2.200G	CW	1050	.003	30†	29*	TWT§	AML		CO	2.5 Δ
6#	TWS2	2150M	.005 †	1.700G - 2.600G	CW	320	.90m	30	11	TWT	AML		CO	284
7	RW103A	2200M	10	1.700G - 2.700G	CW	1900	.05	30	30	TWT	AM		CO	2.8 *
8#	TWS15	2200M	10 †	1.700G - 2.700G	CW	2500	.075	33†	30	TWT§	AM		CO	
9	4054	2200M	17 †	1.700G-2.700G	CW	2.2k	70m	29†		TWT*§	AM		CO	6.5
10	394H	2.200G	20	1.800G-2.600G	CW	1425	60m	26		TWT§	AM		CO	1.25
11	RW129	2200M	20 †	1.700G - 2.700G	CW	2500	.058	30	30	TWT	AM		CO	3.4 *
12#	TPO4130	2200M	20	1.700G - 2.700G	CW	2000	.075	32		TWT	AM		CO	
13	WJ274-9#1	2240M	11 †	2.200G-2.280G	CW	1500	1.0mΔ	28*		TWT§	AM		CO	1.3
14	WJ274-9#2	2240M	22 †	2.200G-2.280G	CW	1700	500uΔ	31*		TWT§	AM		CO	1.3
15	WJ375-7	2250M		2.200G - 2.300G	CW	115 Δ⧄§		13†	4.5*	TWT†	AML		CO	17
16	WJ355-1	2250M	.00006	2.200G - 2.300G	CW	115 Δ⧄§		15†	3.7*	TWT†	AML		CO	17
17	A1207V26	2250M	.001 †	2.190G - 2.310G	CW	800	.15m	20†	5.0*	TWT*Ø	AML		CO	1.5
18	1008H	2.250G	12	2.200G-2.300G	CW			27		TWT	AM			6.0
19	241H	2250M	15	2.200G - 2.300G	CW	1200	.05	27		TWT§	AM		CO	1.5 Δ
20	247H	2.250G	15	2.200G-2.300G	CW	1.300k	50m	30		TWT	AM			1.25
21	WJ448-2	2250M	15 †	2.200G - 2.300G	CW	2600		14†		TWT§			CO	2.1
22	1181H	2.250G	20	2.200G-2.300G	CW	28 Ø§		27	26	TWT	AM		CO	4.5 Δ
23	WJ274-1	2250M	22.5 †	2.200G - 2.300G	CW	1640		24.5†		TWT§			CO	1.1 Δ
24	WJ448-1	2250M	50 †	2.200G - 2.300G	CW	2350	.01	27†		TWT§	AML		CO	2.1
25	WJ395-1	2250M	100 †	2.200G - 2.300G	CW	2800	.018	33†		TWT§			CO	2.8 Δ
26	A1078V10	2250M	.25M†	2.090G - 2.410G	CW	400	.15m	20†	8.0*	TWT*Ø	AML		CO	1.5
27	WJ274-10	2295M	9.0 †	2.290G-2.300G	CW	1060	300uΔ	34*		TWT§	AM		CO	1.0
28	WJ274-12#1	2295M	14 †	2.290G-2.300G	CW	1500	800uΔ	30*		TWT§	AM		CO	1.0
29	WJ274-11	2295M	28.2 †	2.290G-2.300G	CW	1700	500uΔ	29*		TWT§	AM		CO	1.2
30	WJ274-12#2	2295M	28.5 †	2.290G-2.300G	CW	1700	500uΔ	33*		TWT§	AM		CO	1.0
31	WJ395-3	2295M	100 †	2.280G - 2.310G	CW	2800		33†		TWT§			CO	3.1
32	1164H	2300M	10	2.200G - 2.400G	CW	28 Ø§		34	26	TWT	AM		CO	10 Δ
33	WJ1176#1	2300M	10 *	2.200G-2.400G	CW			27*		TWT§	AM		CO	10.5
34	216H	2300M	12	2.200G - 2.400G	CW	1220	.05	27		TWT§	AM		CO	1.0 Δ
35	220H	2300M	13	2.200G - 2.400G	CW	1220	.05	27		TWT§	AM		CO	.94
36	A1365	2300M	15 †	1.900G - 2.700G	CW	2150	.07	30†		TWT§	AM		CO	5.0
37	210H	2300M	20	1.800G - 2.600G	CW	1450	.067	26		TWT§	AM		CO	1.25 Δ
38	212H	2.300G	20	2.200G-2.400G	CW	1.425k	60m	30		TWT	AM			1.25
39	WJ398-1	2300M	20 †	2.200G - 2.400G	CW	1592	.01	5.0†		TWT§			CO	3.5 Δ
40	WJ1176#2	2300M	20 *	2.200G-2.400G	CW			30*		TWT§	AM		CO	10.5
41	WJ274-2	2300M	22	2.200G - 2.400G	CW	1660	.054	30		TWT§	AM		CO	1.03 Δ
42	WJ274-8	2300M	22.3	2.200G - 2.400G	CW	1740	10	34		TWT§			CO	1.25 Δ
43	WJ1185	2300M	23 †	2.20G-2.40G	CW	37 §Ø		27†		TWT	AM		CS	9.6
44	228H	2300M	25	2.200G - 2.400G	CW	1600	.07	26		TWT§	AM		CO	1.5 Δ
45	WJ274-6	2300M	25 †	2.200G-2.400G	CW	1700	1.3mΔ	30*		TWT§	AM		CO	1.3
46	1203H	2.350G	2.5k	2.250G-2.450G	90m					TWT	AM			90
47	4036	2500M	1.0m†	2.30G-2.70G	CW	600	200u	28†	5.0*	TWT*Ø	AML		CO	1.5
48	8379	2500M	.001 †	2.320G - 2.680G	CW	600	.15m	28†	5.0*	TWT*Ø	AML		CO	1.5
49	WJ442	2500M	.003 †	1.000G - 4.000G	CW	115 Δ⧄§		25†	7.0*	TWT†	AML		CO	18
50	M5122	2500M	.01 †	2.000G - 3.000G	CW	500	.001	30†	15*	TWT	SER		CO	
51	M4436	2520M		2.360G - 2.680G	.15	1000	.05	30	30	TWT§	AM		CO	
52#	LD731	2550M	30	2.400G - 2.700G	CW	2900	.08	43	24	TWT§	AM		CO	
53	4056	2600M	13 †	2.200G - 3.000G	CW	1000	.038	35*		TWT§	AM		CO	1.6
54#	M4805B	2600M	13	2.300G - 2.900G	CW	2700	.07	34		TWT§	AM		CO	
55#	3W402	2600M	17	2.300G - 2.900G	CW	2700	.08	38*		TWT§	AM		CO	
56	281H	2600M	50	2.50G-2.70G	CW	2540	56m	40		TWT	AM	FF	CO	3.5
57	3W90	2800M	.0025	2.500G - 3.200G	CW	900	.31m	30	5.5	TWT	AML		CO	
58	VAS101T4	2800M	.003 †	2.700G - 2.900G	CW	275	600u	30†	5.5*	TWT	AML		CO	11.5
59#	VC726A	2800M	.003	2.700G - 2.900G	CW	430	.20m	28	5.8	TWT	AM		CO	
60#	VC779	2800M	.003	2.700G - 2.900G	CW	700	.20m	28	5.5	TWT	AML		CO	2.2 §
61	VAS401P2	2800M	.01 †	2.500G - 3.300G	CW	120 Δ§		25†	6.0*	TWT	AML		CO	9.3
62	VAS401T2	2800M	.01 †	2.500G - 3.300G	CW	400	1.2m	25†	6.0*	TWT	AML		CO	9.3
63#	3W20	2800M	5.0	2.400G - 3.200G	CW	2800	.045	35		TWT§	AM		CO	
64	F2059	2800M	100 †	2.700G - 2.900G	.01	5000	1.0	46		TWT*§	AM		CO	10 Δ
65	362H	2800M	500	2.700G - 2.900G	.006	4500	.80	46		TWT*§	AM		WA	12 Δ
66	D2029	2800M	2000	2.700G - 2.900G	.005	8500	2.5	30		TWT	AM		CO	
67	F2029	2800M	2000	2.700G - 2.900G	.005					TWTØ				
68	A1425	2850M	10m	2.6G-3.1G	CW	700	5.0m	25		TWT*§	AM		CO	3.0
69	A1423	2.85G	30m†	2.60G-3.10G	CW	525	3.5m	17†	20*	TWT*§	AM		CO	1.3
70	A1424	2.85G	40m†	2.60G-3.10G	CW	700	3.2m	34†	24*	TWT*§	AM		CO	3.0
71	A1426	2.85G	1.0	2.60G-3.10G	CW	1150	16m	38†		TWT*§	AM		CO	3.0
72	6658	2850M	2.0	1.700G - 4.000G	CW	1250	.05	30		TWT	AM		CO	
73	6868	2850M	10	1.700G - 4.000G	CW	1500	.073	30		TWT	AM		CO	
74	F2036	2850M	10	1.700G - 4.000G	CW	1500	.073	30		TWTØ	AM		CO	
75	VAS812T4	2856M	2000	2.856G	.005	7800 Ø	1.5 Ø	37		TWT§*	AM		CO	
76	WJ375-1	2900M	.003 †	2.700G - 3.100G	CW	117 §Δ⧄		23†	5.0*	TWT†	AML		CO	18 Δ
77	VAS413P2	2900M	.005 †	2.700G - 3.100G	CW	115 Δ§		25†	5.0*	TWT†	AML		CO	6.5
78	VAS401P3	2900M	.01 †	2.700G - 3.100G	CW	120 Δ§		25†	5.0*	TWT	AML		CO	9.3
79	VAS401T3	2900M	.01 †	2.700G - 3.100G	CW	400	1.2m	25†	5.0*	TWT	AML		CO	9.3
80	VTS4401A2	2900M	.01 †	2.500G - 3.300G	CW	400	1.2m	25†	6.5*	TWT	AML		CO	10
81	VTS4401A3	2900M	.01 †	2.700G - 3.100G	CW	400	1.2m	25†	6.5*	TWT	AML		CO	10
82	VTS4401P2	2.9G	10m†	2.5G-3.3G	CW	§		25†	6.5*	TWT§	AML		CO	16.5
83	VTS4401P3	2.9G	10m†	2.7G-3.1G	CW	§		25†	5.5*	TWT§	AML		CO	16.5
84	A1381	2900M	20m	2.0G-3.85G	CW	550	5.0m	35		TWT§*	AM		CO	2.0
85	MA2336	2900M	1.0	2.600G - 3.200G				37	13	TWT§			CO	
86	F6658	2900M	2.0	1.800G - 4.000G	CW			30		TWTØ	AM		CO	1.44
87	F6868	2900M	10	1.800G - 4.000G	CW	1500		30		TWTØ	AM		CO	1.44
88	WJ368-1	2900M	55 Δ	2.600G - 3.200G	.40					TWT*				2.0 Δ
89	WJ368	2900M	140 †Δ	2.600G - 3.200G	.125	4350	.26	44†		TWT§	AM		CO	2.0
90	VAS805T10	2900M	3000 †Δ	2.700G - 3.100G	.005	12000	2.5	40†		TWT§	AM		CO	10
91	A1384	2925M	1.0	2.0G-3.85G	CW	1200	36m	37		TWT§	AM		CO	3.0
92#	TV9140	2.970G	6.0k	2.800G-3.150G	2.0m	14.5k	3.0	33		TWT	AM		WA	
93	VAS805T5	2975M	4000	2.700G - 3.250G	.005	10500 Ø	2.2 Ø			TWT§	AM		CO	
94	VTS4413P4	3.0G		2.9G-3.1G	CW	§		24†	5.0*	TWT§	AML		CO	6.0
95	M5140	3000M	0.0	2.000G - 4.000G	CW	450	2.5m	30	15	TWT§	AM		CO	
96	WJ295-34	3000M	.0003 †	2.900G - 3.100G	CW	115 Δ⧄§		24†	5.0*	TWT†	AML		CO	6.0
97	VAS101T1	3000M	.001 †	2.000G - 4.000G	CW	275	600u	25†	8.0*	TWT	AML		CO	11.5
98	VAS101T5	3000M	.003 †	2.900G - 3.100G	CW	275	600u	30†	5.5*	TWT	AML		CO	11.5
99	WJ375-2	3000M	.003 †	2.000G - 4.000G	CW	115 Δ⧄§		25†	6.5*	TWT†	AML		CO	17
100	A1297	3000M	5.0m†	2.00G-4.00G	CW	500	4.4m	14†		TWT§	AM		CO	940m
101	L5088	3000M	.005	2.000G - 4.000G	CW	500	.002	40	10	TWT*§	AM		CO	1.08
102	M5180	3000M	.005 †	2.000G - 4.000G	CW	450	.001	30†	11*	TWT§	AM		CO	
103	MA2311	3000M	.005	2.000G - 4.000G				25	10	TWT			CO	
104	VAS413P1	3000M	.005 †	2.000G - 4.000G	CW	115 Δ§		25†	7.5*	TWT†	AML		CO	6.5
105	A1374	3000M	6.0m†	2.00G-4.00G	CW	500	6.0m	14†		TWT*§	AM		CO	.94
106	JAN4004	3000M	.01 †	2.000G - 4.000G	CW	1000	.005			TWT§	AM		CO	2.5
107	4017	3000M	.01 †	2.000G - 4.000G	CW	500	.001	30†	16*	TWT*§	AM		CO	3.0
108	A1200V3	3000M	.01 †	2.000G - 4.000G	CW	500	.001	31†	16*	TWT*§	AM		CO	3.5
109	A1295	3000M	.01 †	2.000G - 4.000G	CW	500	.001	35†	13*	TWT*§	AM		CO	3.0
110	A1308	3000M	.01 †	1.500G - 4.500G	CW	500	.004	33†		TWT§	AM		CO	1.75

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	A1313	3000M	10m	2.0G-4.0G	CW	500	4.4m	30		TWT§	AM		CO	1.8
2	A1327	3000M	.01 †	2.000G - 4.000G	CW	450	.003	36†	17*	TWT§	AM		CO	2.0
3	J2027	3000M	10m	2.0G-4.0G	CW	115 §△		36	17	TWT§	AM		CO	3.5
4	L2301	3000M	10m	2.000G-4.000G				30	25	TWT			CO	
5	M5341	3000M	.01	2.000G - 4.000G	CW	425	.003	30	20	TWT§	AM		CO	
6	M5357	3000M	.01	2.000G - 4.000G	CW	500	.001	30	10	TWT§	AML		CO	
7	M5388	3.0G	10m	2.0G-4.0G	CW	500	2.5m	30	10	TWT§	AML		CO	
8	M5397	3.0G	10m	2.0G-4.0G	CW	500	2.5m	30	12	TWT§	AM		CO	
9	MA2301	3000M	.01	2.000G - 4.000G				30	25	TWT			CO	
10	MA2327	3000M	.01	2.000G - 4.000G				30		TWT§			CO	
11	MA2333	3000M	.01	2.000G - 4.000G				35	10	TWT§			CO	
12	VTS4401A1	3000M	.01 †	2.000G - 4.000G	CW	400	1.2m	25†	8.0*	TWT	AML		CO	10
13	VTS4401P1	3.0G	10m†	2.0G-4.0G	CW	§		25†	8.0*	TWT§	AML		CO	16.5
14#	W10MT-7A	3.0G	10m*	2.000G-4.000G	CW	775	6.0m	33Ø	15*	TWT†	AM		CO	12
15	WJ295-3	3000M	.01 †	2.000G - 4.000G	CW	115 §△⍁		35†	10*	TWT†	AML		CO	6.0 △
16	WJ451	3000M	.01 †	2.000G - 4.000G	CW	115 △⍁§		25†	8.0*	TWT†	AML		CO	4.0
17	A1451	3000M	20m†	2.00G-4.00G	CW	550	5.0m	38†		TWT*§	AM		CO	2.0
18	A1372	3000M	40m	2.00G-4.00G	CW	700	6.0m	32†		TWT*§	AM		CO	2.8
19#	F4100B	3000M	.04	2.000G - 4.000G	CW	700	.01	40	9.0	TWT§	AML		CO	2.0
20	A1367	3000M	.10 †	2.000G - 4.000G	CW	800	.005	30†		TWT§	AM		CO	1.8
21	VTS4224P1	3.0G	160m	2.0G-4.0G	CW	§		26†	15*	TWT	AM		CO	3.5
22	JAN4005	3000M	1.0 †	2.000G - 4.000G	CW	1300	.022			TWT§	AM		CO	2.5
23	A1201	3000M	1.0 †	1.90G-4.10G	CW	1100	18m	35†		TWT*§	AM		CO	2.5
24	A1201V1	3000M	1.0 †	2.000G - 4.000G	CW	1145	.02	30†		TWT*§	AM		CO	3.0
25	A1301	3000M	1.0 †	2.00G-4.00G	CW	1250	1.9m	30†	40*	TWT§	AM		CO	2.0
26	A1309	3000M	1.0 †	1.900G - 4.100G	CW	1100	.03	35†		TWT§	AM		CO	2.5
27	A1311	3000M	1.0	1.9G-4.1G	CW	1100	18m	35		TWT*§	AM		CO	2.5
28	A1452	3000M	1.0 †	2.00G-4.00G	CW	1200	36m	35†		TWT§	AM		CO	3.0
29	MA2302	3000M	1.0	2.000G - 4.000G				30	25	TWT			CO	
30	MA2330	3000M	1.0	2.000G - 4.000G				35	13	TWT§			CO	
31	RW107A	3000M	1.0 †	2.000G - 4.000G	CW	1100	.04	30	25	TWT	AM		CO	2.8 *
32	VTS6058H1	3000M	1.0 †	2.000G - 4.000G	CW	1300	.04	50†		TWT§	AM		CO	4.5
33	WJ1181-2	3000M	1.0 *	2.000G-4.000G	CW	230 §⍁†		30	30	TWT	AM		CO	16
34	WJ2501	3000M	1.0 †	2.00G-4.00G	CW	1050	30m	40	25	TWT§*	AM		CO	3.5 △
35	WJ2501-1	3000M	1.0 †	2.000G-4.000G	CW	1050	30m	30†	25	TWT§	AM		CO	3.5 △
36	WJ2501-2	3000M	1.0 †	2.000G-4.000G	CW	1000	30m	30†	25	TWT§	AM		CO	3.5 △
37	WJ2511	3000M	1.0 †	2.00G-4.00G	CW	1050	30m	40	25	TWT§*	AM		CO	3.5 △
38	A1138V1	3000M	2.0 †	2.000G - 4.000G	CW	1250	.02	38†		TWT*§	AM		CO	3.0
39	A1314	3000M	2.0 †	2.000G - 4.000G	CW	1150	.035	33†		TWT§	AM		CO	2.5
40	L5077	3000M	2.0	2.000G - 4.000G	CW	1200	.045	35	30	TWT	AM		CO	2.0 △
41	MA2347	3000M	2.0	2.000G - 4.000G				35	20	TWT§			CO	
42	A1221	3000M	3.0 †	2.00G-4.00G	CW	1200	36m	33†		TWT*§	AM		CO	4.5
43	A1461	3000M	3.0 †	2.0G-4.0G	CW	1200	51m	40†		TWT§	AM		CO	3.0
44	WJ1181-3	3000M	4.0 *	2.000G-4.000G	CW	230 §⍁†		38	20	TWT	AM		CO	16
45	A1312	3000M	5.0 †	2.0G-4.0G	CW	1400	30m	30	25	TWT§	AM		CO	1.5
46	EM1061	3000M	5.0	2.000G - 4.000G	CW	1045	.055	50		TWT*†				
47	L2350	3000M	5.0	2.000G-4.000G	CW	1800	100m	30	20	TWT§	AM		CO	3.0
48	546H	3000M	10	2.000G - 4.000G	CW	1500	.08	30		TWT§	AM		CO	5.0 △
49	1075H	3000M	10	2.000G - 4.000G	CW	115 §⍁	3.0	55		TWT	AM			16 △
50#	F4135	3000M	10	2.000G - 4.000G	CW	2000	.075	33	25	TWT§	AM		CO	2.82
51	MA2332	3000M	10	2.000G - 4.000G				35	25	TWT§			CO	
52	MA2350	3000M	10	2.000G - 4.000G				35	16	TWT§			CO	
53	RW126	3000M	10 †	2.000G - 4.000G	CW	1900	.05	33	25	TWT	AM		CO	3.4 *
54	A1320	3000M	20 †	2.000G - 4.000G	CW	1000	.038	30†		TWT§	AM		CO	1.6
55	L5005	3000M	20 †	2.000G - 4.000G	CW	2100	.12	33	35	TWT	AM		CO	4.0 △
56#	TWS23	3.0G	20	2.0G-4.0G	CW	2.5k	75m	33		TWT§	AM		WA	6.75 △
57#	TWS31	3.000G	20	2.000G-4.000G	CW	2.5k	75m	26		TWT	AM		CO	7.0
58	565H	3.000G	100	2.000G-4.000G	CW	4.500k	200m	40		TWT§	AM			9.0
59	A1316	3000M	100 †△	2.000G - 4.000G	.10	3500	.03	28†		TWT*§	AM		CO	12.5
60	EM118	3000M	100 †	2.000G - 4.000G	.02	4700	1.0	36		TWT§*	AM		CO	7.5
61	M4447	3000M	100 †	2.000G - 4.000G	CW	3800	.26	30†		TWT§	AM		CO	
62	M5628	3000M	100 †	2.000G - 4.000G	CW	4000	.33	40†		TWT§	AM		CO	7.0
63	WJ368-3	3000M	120 †	2.500G - 3.500G	.40	4450	.05	40†		TWT§*			CO	2.2 △
64#	TOP1481	3000M	200	2.000G-4.000G	CW	5.1k	5.0m	30		TWT	AM		CO	6.6
65#	LB3-250B	3000M	250	2.70G-3.30G	5.0m	7500	250m	32		TWT*	AM		CO	5.0
66	MA2012	3000M	300	2.000G - 4.000G	CW	3000	.82	27		TWT	AM		CO	8.0
67	566H	3.000G	500	2.000G-4.000G	CW	7.000k	500m	40		TWT§	AM			10
68	312H	3000M	1000	2.000G - 4.000G	.005	7100	1.2	30		TWT*§	AM		CO	14 △
69	334H	3000M	1000	2.900G - 3.100G	.006	7100	1.2	33		TWT§	AM		WA	14 △
70	340H	3000M	1000	2.00G-4.00G	10m	7100	1.2	32		TWT	AM	FF	CO	15
71	350H	3000M	1000	2.000G - 4.000G	.01	7100	1.2	30		TWT*§	AM		WA	15 △
72	364H	3000M	1000	2.800G - 3.200G	.005			32		TWT*§	AM			12 △
73	6825	3000M	1000	2.000G - 4.000G	.005	8500	2.5	30		TWT	AM		CO	
74	6826	3000M	1000	2.000G - 4.000G	.005	8500	2.5	30		TWT	AM		CO	
75	7338	3000M	1000	2.000G - 4.000G	.005	8500	2.5	40		TWT	AM		CO	
76	EM108	3000M	1000 †	2.000G - 4.000G	.02	8000	1.8	36		TWT§*	AM		CO	7.5
77	F2057	3000M	1000	2.000G - 4.000G	.01	8000	1.4	30		TWT§	AM		CO	10 △
78	F2058	3000M	1000 †	2.900G - 3.100G	.01	8000	2.0	30		TWT§	AM		CO	10 △
79	F2061	3000M	1000 †	2.900G - 3.100G	.02	8000	2.0	30		TWT§	AM		CO	10 △
80	F2062	3000M	1000 †	2.000G - 4.000G	.01	8000	2.0	30		TWT*§	AM		CO	10 △
81	F2065	3000M	1000 †	2.000G - 4.000G	.01	8000	2.0	31		TWT§	AM		CO	10
82	F6825	3000M	1000	2.000G - 4.000G	.005	8000	2.5	30		TWT	AM		CO	1.88
83	F6826	3000M	1000	2.000G - 4.000G	.005	8500	1.8	30		TWT	AM		CO	1.88
84	F7338	3000M	1000	2.400G - 3.600G	.005	8500	2.5	40		TWTØ	AM		CO	1.88
85	VTS5151A1	3000M	1000 †△	2.000G - 4.000G	.02	8000 Ø	1.8 Ø	36†		TWT§	AM		CO	7.5
86	520H	3000M	1200 △	2.500G - 3.500G	.022	7000	1.5	28		TWT*	AM		CO	16
87	550H	3000M	1200	2.000G - 4.000G	.02	9000	2.0	33		TWT§	AMP		WA	7.0 △
88	518H	3000M	1250	2.000G - 4.000G	.02	7800	1.8	41		TWT§	AM		WA	10 △
89	354H	3000M	1300	2.900G - 3.100G	.02	7100	1.2	33		TWT§	AM		WA	15 △
90	F2073	3000M	1300	2.900G - 3.100G	.02					TWT§	AM		CO	
91	VTS6350A1	3000M	1500 †	2.500G - 3.500G	CW	6200	1.2	30†	40	TWTØ#	AM			15
92	511H	3000M	1600	2.900G - 3.100G	.02	7500	1.3	33		TWT§	AM		CO	15 △
93#	TH9110	3000M	4000 †	2.000G - 4.000G	CW	12000	2.0			TWTØ	AM		WA	
94	EM102	3000M	15000 †	2.500G - 3.500G	.02	8000	1.8	35		TWT§*	AM		CO	7.5
95#	8128-QKW750B	3.000G	60k	2.900G-3.100G	CW	34.5k	12	20		TWT			WA	19.8
96	M5275	3050M	.005 †	2.000G - 4.100G	CW	500	.001	35†	11*	TWT§	AM		CO	
97	321H	3050M	250000	2.900G - 3.200G	.006	57000	28	27		TWT†	AM		WA	88 △
98	A1207V17	3100M	.001 †	2.700G - 3.500G	CW	800	.15m	20†	5.0*	TWT*Ø	AML		CO	1.50
99	VAS101T2	3100M	.001 †	1.800G - 2.400G	CW	275	600u	25†	7.0*	TWT	AML		CO	11.5
100	A1113V8	3100M	.10 †	2.700G - 3.500G	CW	700	.008	30†		TWT*§	AM		CO	2.5
101	A1207	3100M	100m†	2.70G-3.50G	CW	600	240u	20†	4.5	TWT*Ø	AML		CO	2.0
102	516H	3100M	1000	2.900G - 3.300G	.02	7100	1.2	30		TWT§	AM		CO	15 △
103#	TOP1315	3.150G	5.0n	2.900G-3.400G	10m	14.5k	3.0	30		TWT	AM			
104	VTS4409P1	3.15G	10m†	2.3G-4.0G	CW	§		27†	10*	TWT§	AML		CO	16.5
105	F2064	3150M	1000 †	2.800G - 3.500G	.01	8000	2.0	33		TWT*§	AM		CO	10 △
106	519H	3200M	1500	2.900G - 3.500G	.02	7500	1.3	33		TWT*§	AM		CO	15 △
107#	F4024	3.225G	40m	2.15G-4.3G	CW	700	2.0m	40	9.0	TWT§	AML		CO	2.2
108#	TOP1110	3250M	.04	2.000G - 4.500G	CW	650	8.0	40†	9.0*	TWT	AM		CO	
109	M5379	3250M	2.0	2.500G - 4.000G	CW	950	.06	41		TWT§	AM		CO	
110	341H	3250M	1000	2.500G - 4.000G	.01	7100	1.2	33		TWT*§	AM		WA	15 △

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	F2063	3250M	1000 †	2.500G - 4.000G	.01	8000	2.0	33		TWT*§	AM		CO	10 △
2	390H	3250M	1200	2.500G - 4.000G	.024	7100	1.2	31		TWT*§	AM		CO	15 △
3	535H	3.250G	1.5k△	2.900G-3.600G	20m	7.000k	1.5	29		TWT*	AM		CO	10
4	VTS5153A1	3250M	2500 †△	2.500G - 4.000G	.02	10000 Ø	2.2 Ø	30†		TWT§	AM		CO	7.5
5	379H	3.250G	8.0k	3.000G-3.500G	CW	77m	30			TWT§	AM		CO	1.25
6	A1078V1	3250M	.25M†	2.500G - 4.000G	CW	400	.15m	20†	8.0*	TWT*Ø	AML		CO	1.5
7	6784	3.3G		3.1G-3.5G	CW		700u	15†	6.5*	TWT†	AML	VT	CO	
8	JAN6784	3300M		3.100G - 3.500G		700	.50m	22	7.0	TWT	AM			
9	MA2100	3.3G		3.1G-3.5G	CW		700u	15†	6.5*	TWT†	AML	VT	CO	
10	W9/1E	3300M	.12	2.500G - 4.100G	CW	500	.005	28	21.5	TWTØ	AM		WA	.12
11	VTS5252C1	3.300G	10k	3.100G-3.500G	.01	12k	3.3	35		TWT	AM		CO	12
12	VAS101T3	3375M	.001 †	2.300G - 4.450G	CW	275	600u	25†	8.0*	TWT	AML		CO	11.5
13	VAS102T1	3375M	.001 †	2.300G - 4.450G	CW	275	600u	25†	8.0*	TWT	AML		CO	18
14	M2103Y	3375M	.005	2.300G - 4.450G	CW	475	1.5m	30	11	TWT*§	AML		CO	
15	M5205	3375M	.005 †	2.300G - 4.450G	CW	475	.001	30†	11*	TWT§	AM		CO	
16	M5234	3375M	.005 †	2.300G - 4.450G	CW	475	.001	30†	11*	TWT§	AM		CO	
17	M5363	3375M	.01	2.300G - 4.450G	CW	500	.001	30	10	TWT§	AML		CO	
18	JANM5057A	3.375G	100m	2.300G-4.450G	CW	700	1.0m	48*	10	TWT§	AML		CO	5.5 △
19	WJ269-1	3400M	.0001 †	2.300G - 4.500G	CW	115 △⍁§		25†	6.0*	TWT	AML		CO	17 △
20	WJ295-2	3400M	.005 †	2.300G - 4.500G	CW	115 △⍁§		25†	9.0*	TWT†	AML		CO	4.5 △
21	VAS101T6	3500M	.001 †	3.400G - 3.600G	CW	275	600u	30†	6.0*	TWT	AML		CO	11.5
22	M5452	3500M	.01	2.600G - 5.200G	CW	500	.05	50	13	TWT§	AML		CO	
23	A1318	3500M	45 *	2.50G-4.50G	CW	2200	70m	40†	23*	TWT§	AM		CO	1.5
24	537H	3500M	1500 △	3.300G - 3.700G	.005	7100	1.2	32		TWT§	AM		CO	14
25	F2060	3500M	1500 †	3.350G - 3.650G	.01	8000	2.0	32		TWT§	AM		CO	10 △
26	A1207V29	3750M	.001 †	3.500G - 4.000G	CW	800	.15m	25†	5.0*	TWT*Ø	AML		CO	1.5
27#	TOP1409	3750M	25	3.300G-4.200G	CW	1.8k	70m	38	25	TWT	AM		CO	1.2
28	M5676	3750M	230	3.600G - 3.900G	CW			50		TWT	AM		CO	
29#	RW48	3800M	11	3.40G-4.20G	CW	1500	47m	39	22	TWT§	AM		CO	6.7 *
30#	TL7	3850M	.003	3.500G - 4.200G	CW	470	2u	20	6.0	TWTØ	AM		CO	.221
31#	N1024M	3900M	.0015	3.600G - 4.200G	CW	750	.22m	20	9.0	TWT	AML		CO	1.5 §
32#	VC729A	3900M	.003	3.600G - 4.200G	CW	540	.20m	29	6.5	TWT	AM		WA	
33	L5168	3900M	.005 †	2.600G - 5.200G	CW	600	.002	48†		TWT	AM		CO	1.7
34	L5128	3900M	.01	2.500G - 5.000G	CW	500	.002	48	13	TWT	AM		CO	2.0 △
35	WJ455	3900M	.01 †	2.600G - 5.200G	CW	115 §△⍁		25†	7.5*	TWT†	AML		CO	
36#	N1025M	3900M	.10	3.600G - 4.200G	CW	800	3.0m	25	21	TWT	AM		CO	1.5 §
37	M5651	3900M	1.0	2.600G - 5.200G	CW	1300	.05	35	18	TWT	AM		CO	
38	L5085	3900M	2.0 †	2.600G - 5.200G	CW	1050	.04	50†		TWT*§	AM		CO	1.5
39	A1463	3900M	3.0 †	2.60G-5.20G	CW	1600	30m	35†		TWT§	AM		CO	3.0
40#	VC781	3900M	8.0	3.600G - 4.200G	CW	2000	.025	50		TWT§	AM		WG	6.3 *
41#	RW48C	3900M	10	3.60G-4.20G	CW	2300	50m	38†	26*	TWT	AM		CO	
42#	TOP1310	3.900G	10	3.600G-4.200G	CW	2.200k	50m	40	30	TWT§	AM		CO	1.2
43#	VC727A	3900M	10	3.600G - 4.200G	CW	3300	.045	30	27	TWT	AM		WA	
44#	VC728A	3900M	16	3.600G - 4.200G	CW	3000	.035	33	25	TWT	AM		WA	10.3 *
45#	LD508B	3900M	20	3.600G - 4.200G	CW	3300	.045	42	25	TWT§	AM		WA	
46#	N1074	3.90G	20 *	3.60G-4.20G	CW	4000	500u△	41	22	TWT§	AM		WA	17 *
47	A1485	3900M	25	2.60G-5.20G	CW	3800	128m	40	35	TWT§*	AM		CO	1.0
48	M5648	3900M	200 †	2.600G - 5.200G	CW	4700	.425	36†		TWT§	AM		CO	7.0
49	VTG6220A1	3.900G	200	2.600G-5.200G	CW	4.800k	450m	35		TWT	AM		CO	9.0
50	WJ381-11	3950M	.005 †	3.700G - 4.200G	CW	115 △⍁§		28†	8.0*	TWT†	AML		CO	6.0
51	WJ381-6	3950M	.0055 †	3.700G - 4.200G	CW	115 §△⍁		25†	8.0*	TWT†	AML		CO	6.0 △
52	WJ439	3950M	.0055 †	3.700G - 4.200G	CW	115 §△⍁		25†	8.0*	TWT†	AML		CO	17 △
53#	4W30	3950M	3.0	3.700G - 4.200G	CW	1500	.017	34		TWT§	AM		WA	
54#	LD861	3950M	6.0	3.700G - 4.200G	CW	1850	.026	40		TWT§	AM		CO	.95
55#	RW4	3950M	16 *	3.600G - 4.300G	CW	2300	.07	40	22	TWT§	AM		WA	22.3 *
56#	VC707E	3950M	20	3.700G - 4.200G	CW	3300	.045	40	25	TWT§	AM		WG	13.2 *
57	X1207	3957M	1200	2.650G - 5.300G	.02	7500	1.2	50		TWT*§	AM		CO	
58	MA2352	3975M	1.0	2.800G - 5.150G				40	16	TWT§			CO	
59	STC4820	3975M	10	2.650G - 5.300G	CW	1875	.08	37	29	TWT*§	AM		CO	1.5
60	EM1207	3975M	1200 △	2.650G - 5.300G		8000	1.75	30		TWT*§				8.0
61	528H	3975M	1260	2.650G - 5.300G	.02	8000	1.5	40		TWT§	AM		WA	10.5 △
62	557H	3.980G	1.2k	2.650G-5.300G	20m	8.000k	1.5	40		TWT§	AM			10.5
63	A1322	4000M	.01 †	2.000G - 6.000GØ	CW	780	4.5m	35†		TWT§	AM		CO	1.75
64	A1375	4000M	.01 †	2.000G - 6.000GØ	CW	800	.004	38†	17*	TWT*§	AM		CO	3.0
65	226H	4000M	.05	3.000G - 5.000G	CW	450	.002	50		TWT§	AM		CO	.75 △
66	224H	4000M	.20	3.000G - 5.000G	CW	1220	.05	40		TWT§	AM		CO	.75 △
67	A1323	4000M	2.0 †	2.000G - 6.000GØ	CW	1600	.03	33†		TWT§	AM		CO	3.25
68#	4W75A	4000M	3.0	3.600G - 4.300G	CW	3200	.018	23		TWT§	AM		WA	
69	A1310	4000M	3.0 †	2.0G-6.0GØ	CW	1600	45m	40	30	TWT§	AM		CO	3.0
70	J2026	4000M	3.0	2.0G-6.0GØ	CW	120 §⍁		40	30	TWT§	AM		CO	20
71	384H	4000M	4.0	3.000G - 5.000G	CW	1320	.023	40		TWT§	AM		CO	.94 △
72	215H	4.000G	6.0	3.000G-5.000G	CW	1.390k	26m	40		TWT§	AM		CO	9.4
73	55340	4000M	8.0	3.800G - 4.200G	CW	1500	.055	35	30	TWT	AM		WA	1.1
74#	LB4-8	4000M	8.0 †	3.800G - 4.200G		1100	.05	35	30	TWT	AM			
75#	4W72A	4050M	3.0	3.600G - 4.300G	CW	3200	.018	20		TWT	AM		WA	
76#	LD860	4050M	6.0	3.900G - 4.200G	CW	2000	.026	40		TWT§	AM		CO	.90
77#	N1048M	4100M	.0005	3.800G - 4.400G	CW	350	.22m	25	5.5	TWT*Ø	AML		CO	
78#	W7/1D	4100M	.12	3.530G - 4.620G	CW	1600	.006	21†		TWT	AM		WA	
79	WJ362	4150M	800 †	3.400G - 4.900G	.005	7200		37†		TWT§			CO	2.8 △
80#	TOP1091	4500M	4.0 †	3.0G-6.0G	CW	1.5k	25m	40	25	TWT§	AM		WA	770m
81	L3849	4500M	50 △	3.500G - 5.500G	.10	4000	.25	33†		TWT*§	AM		CO	2.5
82	VTC4410P1	4.53G	10m†	3.45G-5.61G	CW	§		27†	10*	TWT§	AML		CO	16.5
83	VTC4402P3	4.65G	10m†	4.4G-5.0G	CW	§		30†	6.0*	TWT§	AML		CO	16.5
84	VTC4402A3	4700M	.01 †	4.400G - 5.000G	CW	750	1.2m	30†	6.0*	TWT	AML		CO	10
85	A1205	4700M	1.0 †	4.400G - 5.000G	CW	1600	.027	37†		TWT§	AM		CO	3.25
86	615H	4700M	4.0	4.650G - 4.750G	CW	1280	.02	40		TWT§	AM			
87	7537	4700M	6.0	4.400G - 5.000G	CW	1500	.055	32	30	TWT	AM		WA	1.1
88#	TOP1090	4700M	6.0	4.400G - 5.000G	CW	1500	50	40†	9.0*	TWT	AM		CO	
89#	RW45	4700M	7.0	4.40G-5.00G	CW	1500	70m	41	20	TWT§	AM		WA	20 *
90	260H	4700M	12.5	4.400G - 5.000G	CW	2600	.045	33		TWT§	AM		CO	1.5 △
91	1006H	4700M	12.5	4.400G - 5.000G	CW	115 §⍁	1.25	30		TWT	AM			9.0 △
92	A1359	4700M	15 †	4.40G-5.00G	CW	2300	40m	30†		TWT§	AM		CO	2.0
93#	VTC2606A1	4.7G	18	4.4G-5.0G	CW	2.0k	45m	30		TWT	AM		WA	13.2 *
94	616H	4700M	20	4.300G - 5.100G	CW	2900	.065	40		TWT§	AM		CO	3.0 △
95#	LD4044	4700M	35	4.400G-5.000G	CW	3800	58m	39	21	TWT§	AM		WA	9.1
96	WJ436-1	4700M	125 †	4.400G - 5.000G	CW	5300	.01			TWT§			CO	3.5 △
97	VA636D	4700M	200	4.400G - 5.000G	CW	4100	.36	40		TWT§	AM		CO	8.0
98#	YH1180	4700M	1000	4.400G - 5.000G	CW	11000	.90	40	36	TWT	AM		WC	33
99	WJ349-2	4750M	.0005	4.500G - 5.000G	CW	115 △⍁§		30	4.0	TWT†	AML		CO	17 △
100	M5238	4950M	.001 †	4.600G - 5.300G	CW	750	.005	14†	25*	TWT§	AM		CO	
101	STC134	4950M	5.0	3.900G - 6.000G	CW	2000	.07	40	35	TWT*§	AM		CO	2.5 §
102	WJ369-1	5000M	55 △	4.600G - 5.400G	.40					TWT*				2.0 △
103	WJ369	5000M	140 †△	4.600G - 5.400G	.125	5400	.21	45†		TWT§	AM		CO	2.0
104	WJ369-3	5100M	120 †	4.400G - 5.800G	.40	5550	.05	40†		TWT§*			CO	1.8 △
105	VAC801T9	5200M	1000	5.000G - 5.400G	.01	8500 Ø	1.1 Ø	40		TWT§*	AM		CO	
106	VTC4210A4	5250M	.01	4.750G - 5.750G	CW	875	.001	35†	10*	TWT§	AM		CO	5.0
107	VTC4210P4	5.25G	10m	4.75G-5.75G	CW	§		35†	10*	TWT	AM		CO	8.0
108	J2055	5450M	100m	3.5G-7.4G	CW	115 §⍁		38		TWT§	AM		CO	5.5
109	MA2354	5450M	10	5.300G - 5.600G				30	30	TWT§			CO	
110	WJ349	5500M	.0005	4.500G - 6.500G	CW	115 △⍁§		30	4.5	TWT†	AML		CO	17 △

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	4020	5500M	.01 †	4.000G - 7.000G	CW	900	.80m	28†	18*	TWT*§	AM		CO	3.0
2	A1467	5500M	10m	2.50G-8.50G	CW	550	1.5m	36	15	TWT§*	AM		CO	2.0
3	VTC4210A5	5500M	.02	5.000G - 6.000G	CW	875	.001	38†	9.0*	TWT§	AM		CO	5.0
4#	F4025	5500M	.03	4.000G - 7.000G	CW	850	.001	40	10	TWT§	AML		CO	2.2
5	M4465	5500M	.05	2.000G - 9.000G	CW	850	.004	30		TWT§	AM		CO	
6	A1358	5500M	2.0	3.0G-8.0G	CW	2000	47m	35	30	TWT§	AM		CO	3.0
7	A1468	5500M	2.0	2.50G-8.50G	CW	2100	32m	38	28	TWT§*	AM		CO	3.3
8	7847	5500M	10	5.000G - 6.000G	CW					TWT	AM			
9	F7847	5500M	10	5.000G - 6.000G	CW	3000		27		TWT	AM		CO	.88
10	X1102	5550M	100	5.200G - 5.900G	.10	3000	.165	50		TWT*§	AM		CO	
11	VAC103T2	5600M	.005	5.200G - 6.000G	CW	550	.001	25†	7.0*	TWT	AML		CO	11.5
12	A1382	5625M	3.0m	3.85G-7.4G	CW	650	600u	30	20	TWT§*	AM		CO	1.6
13	A1385	5625M	100m	3.85G-7.4G	CW	950	9.0m	38		TWT§	AM		CO	1.6
14	WJ349-3	5650M	.0005	5.400G - 5.900G	CW	115 △⍁§		30	4.0	TWT†	AML		CO	17 △
15	VAC414P2	5650M	.01	5.400G - 5.900G	CW	115 △§		25†	6.0*	TWT	AML		CO	6.5
16	VTC4402A4	5650M	.01 †	5.400G - 5.900G	CW	750	1.2m	30†	6.0*	TWT	AML		CO	10
17	VTC4402P4	5.65G	10m†	5.4G-5.9G	CW	§		30†	6.0*	TWT§	AML		CO	16.5
18	VTC4210A7	5650M	.02	5.400G - 5.900G	CW	875	.001	35†	8.5*	TWT§	AM		CO	5.0
19	VTC4210P7	5.65G	20m	5.4G-5.9G	CW	§		35†	8.5*	TWT	AM		CO	8.0
20	VAC801T1	5650M	1000	5.400G - 5.900G	.01	8000 ∅	1.3 ∅	40		TWT§*	AM		CO	5.0 △
21	F2032	5650M	4000	5.400G - 5.900G	.005	17000	3.7	27		TWT∅	AM		CO	
22	306H	5650M	20000	5.400G - 5.900G	.02	27000	7.0	43		TWT*§	AM		WA	30 △
23	M2112M	5750M	.01	4.000G - 7.500G	CW	850	2.25m	30	15	TWT*§	AML		CO	
24	VTC4225P1	5.75G	20m	4.0G-7.5G	CW	§		24†	15*	TWT	AM		CO	3.5
25	M5240	5825M	.005 †	4.300G - 7.350G	CW	850	.002	35†	11*	TWT§	AM		CO	
26	WJ296-2	5825M	.005 †	4.300G - 7.350G	CW	115 △⍁§		25†	8.5*	TWT†	AML		CO	4.5 △
27	VTC4210A2	5825M	.01	4.300G - 7.350G	CW	875	.001	33†	9.5*	TWT§	AM		CO	5.0
28	VTC4210A3	5825M	.01	4.300G - 7.350G	CW	875	.001	35†	10*	TWT§	AM		CO	5.0
29	VTC4210P2	5.825G	10m	4.3G-7.35G	CW	§		33†	9.5*	TWT	AM		CO	8.0
30	VTC4210P3	5.825G	10m	4.3G-7.35G	CW	§		35†	10*	TWT	AM		CO	8.0
31	VTC4402A2	5825M	.01 †	4.300G - 7.350G	CW	750	1.2m	30†	7.0*	TWT	AML		CO	10
32	JANM5058A	5.825G	100m	4.300G-7.350G	CW	1.5k	1.0m	48*	10	TWT§	AML		CO	5.0 △
33	M5182	6000M	.001 †	4.000G - 8.000G	CW	900	.002	30†	12*	TWT§	AM		CO	
34	MA2316	6000M	.002	4.000G - 8.000G				25	10	TWT			CO	
35	A1453	6000M	3.0m†	4.00G-8.00G	CW	650	700u	30†	20*	TWT*§	AM		CO	1.6
36	ZM3212	6000M	.003	4.000G - 8.000G	CW	640	.001	25†	9.0*	TWT†	AML		CO	9.5
37	L5158	6000M	.005	4.000G - 8.000G	CW	850	.002	25	15	TWT	AM		CO	1.5 △
38	M5276	6000M	.005 †	4.000G - 8.000G	CW	850	.001	35†	11*	TWT§	AM		CO	
39	VAC103T1	6000M	.005	4.000G - 8.000G	CW	550	.001	25†	10*	TWT	AML		CO	11.5
40	VAC402P1	6000M	.005 †	4.000G - 8.000G	CW	120 △§		25†	7.0*	TWT	AML		CO	15.5
41	VAC402T1	6000M	.005 †	4.000G - 8.000G	CW	750	1.2m	25†	7.0*	TWT	AML		CO	9.3
42	VAC414P1	6000M	.005	4.000G - 8.000G	CW	115 △§		25†	7.5*	TWT	AML		CO	6.5
43	VTC4402A1	6000M	.005 †	4.000G - 8.000G	CW	750	1.2m	25†	7.5*	TWT	AML		CO	10
44	ZM3110	6.0G	5.0m†	4.0G-8.0G	CW	500	850u	25†	10*	TWT§	AML		CO	3.25
45	ZM3227	6000M	.005 †	4.000G - 8.000G	CW	550	.001	25†	10*	TWT†	AML		CO	
46	A1360	6000M	10m†	4.0G-8.0G	CW	720	1.0m	35†	15	TWT§	AM		CO	2.0 △
47	M5358	6000M	.01	4.000G - 8.000G	CW	875	.001	30	10	TWT§	AML		CO	
48	MA2303	6000M	.01	4.000G - 8.000G				30	24	TWT			CO	
49	MA2328	6000M	.01	4.000G - 8.000G				30		TWT§			CO	
50	VTC4210A1	6000M	.01	4.000G - 8.000G	CW	875	.001	30†	11*	TWT§	AM		CO	5.0
51	VTC4210A6	6000M	.01	5.000G - 7.000G	CW	875	.001	35†	9.0*	TWT§	AM		CO	5.0
52	VTC4210P1	6.0G	10m	4.0G-8.0G	CW	§		30†	11*	TWT	AM		CO	8.0
53	VTC4210P6	6.0G	10m	5.0G-7.0G	CW	§		35†	9.0*	TWT	AM		CO	8.0
54	WJ452	6000M	.01 †	4.000G - 8.000G	CW	115 △⍁§		25†	8.0*	TWT†	AML		CO	4.0
55#	F4101B	6000M	.03	4.000G - 8.000G	CW	900	.005	40	10	TWT§	AML		CO	2.0
56#	TOP1111	6000M	.03	4.000G - 8.000G	CW	850	5.0	40†	9.0*	TWT	AM		CO	
57	A1454	6000M	100m†	4.00G-8.00G	CW	950	7.0m	40†		TWT§	AM		CO	1.6
58	MA2306	6000M	.50	4.000G - 8.000G				30	30	TWT			CO	
59	A1458	6000M	1.0 †	4.00G-8.00G	CW	2000	52m	38†	35*	TWT§	AM		CO	3.0
60	L3711	6000M	1.0 †	4.000G - 8.000G	CW	1550	.03	36		TWT*§	AM		CO	1.5
61	L3996	6000M	1.0 †	4.000G - 8.000G	CW	1550	.03	50†		TWT*§	AM		CO	1.5 △
62	MA2335	6000M	1.0	4.000G - 8.000G				33	18	TWT§			CO	
63	VTC6068H1	6000M	1.0 †	4.000G - 8.000G	CW	1600	.03	60†		TWT§	AM		CO	4.5
64	WJ1181-4	6000M	1.0 *	4.000G-8.000G	CW	230 §⍁†		30	30	TWT	AM		CO	16
65	WJ2502	6000M	1.0 †	4.00G-8.00G	CW	2400	20m	40	25	TWT§*	AM		CO	3.5 △
66	WJ2502-1	6000M	1.0 †	4.000G-8.000G	CW	2350	30m	30†	25	TWT	AM		CS	3.5 △
67	WJ2512	6000M	1.0 †	4.00G-8.00G	CW	2400	20m	40	25	TWT§*	AM		CO	3.5 △
68	A1429	6000M	2.0	4.0G-8.0G	CW	2300	44m	40	30	TWT§	AM		CO	3.0
69	D2009	6000M	2.0	4.000G - 8.000G	.04	2500	.065	35		TWT	AM		CO	
70	F2009⍁	6000M	2.0	4.000G - 8.000G	CW		.065	25		TWT∅	AM		CO	
71	MA2348	6000M	2.0	4.000G - 8.000G				30	25	TWT§			CO	
72	VTC6059F2	6000M	2.0 †	4.000G - 8.000G	CW	2600	.032	35†		TWT§	SEA		CO	3.5
73	A1462	6000M	3.0 †	4.00G-8.00G	CW	2000	52m	38†	35*	TWT§	AM		CO	3.0
74	VTC6068H3	6000M	3.0 †	4.000G - 8.000G	CW	2600	.04	60†		TWT§	AM		CO	4.5
75	WJ1181-5	6000M	4.0 *	4.000G-8.000G	CW	230 §⍁†		40	22	TWT	AM		CO	16
76	623H	6000M	10	4.000G - 8.000G	CW	2900	.06	30		TWT§	AM		CO	2.5 △
77	1007H	6000M	10	4.000G - 8.000G	CW	115 §⍁	3.0	37		TWT	AM			16 △
78	A1445	6000M	10 †	4.00G-8.00G	CW	2850	70m	40†	30*	TWT*§	AM		CO	3.0
79	A1473	6.0G	10 †	4.00G-8.00G	CW	2600	60m	35†	30	TWT§	AM		CO	1.0 △
80	A1483	6000M	10	4.00G-8.00G	CW	2400	66m	40	35	TWT§*	AM		CO	800m
81	F2019	6000M	10	4.000G - 8.000G	CW	3000	.07	30		TWT§	AM		CO	6.5
82	X282	6000M	10	4.000G - 8.000G	CW	2700	.065	27		TWT	AM			.88
83	EM1199	6000M	15	4.000G - 8.000G	CW	2900	.075	55	25	TWT§	AM		CO	3.0
84	WJ1181-6	6000M	15 *	4.000G-8.000G	CW	230 §⍁†		46	22	TWT	AM		CO	16
85	653H	6.000G	100	4.000G-8.000G	CW	7.000k	300m	40		TWT§	AM			6.0
86	M4448	6000M	100	4.000G - 8.000G	CW	4000	.20	30		TWT§	AM		CO	
87	M5348	6000M	100	4.000G - 8.000G	CW	6600	.20	30	35	TWT§	AM		CO	
88#	TOP1514	6000M	200 †	4.000G-8.000G	CW	5.5k	330m	50†		TWT§	AM		CO	6.0 *
89	654H	6.000G	300	4.000G-8.000G	CW	7.500k	400m	40		TWT§	AM			7.0
90	VTC5070A1	6000M	300 †△	4.000G - 8.000G	.05	8000 ∅	.30 ∅	30†		TWT§	AM		CO	8.0
91	382H	6000M	1000	4.000G - 8.000G	.02	9500	1.7	30		TWT*§	AM		CO	10 △
92	L5082	6000M	1000	4.000G - 8.000G	.02	12000	2.5	35	35	TWT	AM		CO	5.0 △
93	L5119	6000M	1000	4.000G - 8.000G	.01	12000	2.6	35		TWT*	AM		CO	8.0
94	650H	6000M	1250	4.000G - 8.000G	.02	9000	2.0	33		TWT§	AM		WA	7.0
95	L3470	6000M	20M	4.00G-8.00G	CW	750	3.0m	36		TWT§	AM		CO	1.3
96	A1361	6100M	10m	4.19G-8.0G	CW	900	4.0m	30		TWT*§	AM		CO	2.0
97	625H	6150M	4.0	5.900G - 6.400G	CW	1500	.022	50		TWT§	AM		CO	1.0 △
98	624H	6150M	200	5.900G - 6.400G	CW	4800	.30	30		TWT∅	AM		WA	57 △
99#	LD844	6150M	2000	5.925G - 6.425G	CW	18000	1.3	36		TWT∅	AM		WA	
100#	M4802C	6.175G	8.0	5.9G-6.45G	CW	3.0k	30	39		TWT§	AM		WA	7.5
101#	RW87	6175M	10	5.925G-6.425G	CW	1800	48m	38	23	TWT	AM		CO	10 *
102#	RW87C	6175M	10	5.85G-6.50G	CW.	2300	55m	38†	26*	TWT	AM		CO	
103#	RW87U	6175M	10	5.85G-6.50G	CW	2300	55m	38†	26*	TWT	AM		CO	
104	MA2002	6175M	12 †	5.925G - 6.425G	CW	2450	.04	34	26	TWT§	AM		WA	13 *
105	MA2002A	6.175G	15 †	5.925G-6.425G	CW	3.0k	3.5m	34	28*	TWT*§	AM		WA	13
106#	VC711	6175M	15	5.925G - 6.425G	CW	1700	.04	35	25	TWT	AM		WA	10.5 *
107	WJ440-4	6175M	600 †	5.925G-6.425G	CW	9000	550m	40		TWT§			WA	17 △
108#	YH1042	6175M	1000	5.925G - 6.425G	CW	16200	.95	27		TWT	AM		WA	21 §
109#	M7864	6175M	5000 †	5.900G - 6.450G	CW	20000	2.0	30†		TWT∅#	AM		WA	14.3
110	VA666	6175M	8000 †	5.925G - 6.425G	CW	17500	3.0	36†		TWT∅#	AM		WA	30

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1#	M7880A	6175M	10000 †	5.925G - 6.425G	CW	22000	3.5	37†		TWTØ#	AM		WA	17.6
2#	LD4052	6175M	12k	5.925G-6.425G	CW	24k	3.7	40		TWTØ	AM		WG	60
3	VAC103T3	6200M	.005	5.900G - 6.500G	CW	550	.001	25†	7.0*	TWT	AML		CO	11.5
4	VTC4402A5	6200M	.01 †	5.900G - 6.500G	CW	750	1.2m	30†	6.0*	TWT	AML		CO	10
5	VTC4402A6	6200M	.01 †	5.900G - 6.500G	CW	750	1.2m	30†	6.5*	TWT	AML		CO	10
6	VTC4402P5	6.2G	10m†	5.9G-6.5G	CW	§		30†	6.0*	TWT§	AML		CO	16.5
7	VTC4402P6	6.2G	10m†	5.9G-7.5G	CW	§		30†	6.5*	TWT§	AML		CO	16.5
8#	VC745A	6200M	20	5.925G - 6.475G	CW	1800	.04	40	23	TWT	AM		WA	8.95 *
9#	LB6-25M	6200M	25	5.9G-6.5G	CW	4.0k	50m	40*	30*	TWT	AM		WA	.400
10#	TWC827	6362M	8000	6.275G - 6.450G	CW	32000	1.6	38		TWT	AM		WA	150 △
11	VTC4411P1	6.39G	10m†	5.05G-7.73G	CW	§		27†	10*	TWT§	AML		CO	16.5
12#	TWC527	6425M	4000 †	6.300G - 6.550G	CW	32000	1.4	27†		TWT	AM		WA	150
13	YH1030	6500M	25	5.900G - 7.200G	CW	2250	.065	40	30	TWT	AM		WA	1.8
14#	TWC21	6525M	20	5.925G - 7.125G	CW	3.4	.45	40	28	TWT§	AM		WA	11 *
15#	VC730A	6535M	17	5.850G - 7.200G	CW	3600	.04	40	22	TWT	AM		WA	
16	VTC4414P4	6.55G	20m†	5.85G-7.25G	CW	§		30†	6.5*	TWT§	AML		CO	7.5
17#	RW85	6750M	22	6.40G-7.10G	CW	1700	67m	39	22	TWT§	AM		CO	6.7 *
18	WJ231-5	6750M	35 †	5.000G - 8.500G	CW	4600	.002	30†	35	TWT§	AM		CO	4.5
19#	7W50	6770M	3.5	6.400G - 7.150G	CW	2200	.018	37	24	TWT§	AM		WA	
20#	LD883	6770M	18	6.430G - 7.110G	CW	3700	.041	36	25	TWT§	AM		WA	8.3
21#	7W70	6770M	29	6.430G - 7.110G	CW	3800	.055	43	23	TWT§	AM		WA	
22#	7W10	6800M	.01	5.800G - 7.800G	CW	1300	.001	28	11	TWT§	AML		WA	
23#	M4837	6.8G	5.5	6.4G-7.2G	CW	1.8k	22m	35		TWT§	AM		CO	1.8
24#	7W25	6800M	8.0	6.400G - 7.200G	CW	2850	.03	38		TWT§	AM		WA	
25#	M4802D	6.8G	8.0	6.4G-7.2G	CW	3.0k	30	38		TWT§	AM		WA	7.5
26#	LB6-25AM	6800M	20	6.4G-7.2G	CW	4.0k	50m	40*	30*	TWT	AM		WA	.400
27	217H	7000M	5.0	6.000G - 8.000G	CW	1600	.025	40		TWT§	AM		CO	1.0 △
28#	LD550A	7000M	10	5.800G - 8.200G	CW	3400	.04	30	25	TWT§	AM		WA	
29	227H	7.000G	12	6.000G-8.000G	CW	2.100k	42m	45		TWT§	AM		CO	1.5
30	WJ284-5	7000M	200 †	6.000G - 8.000G	CW	6750	.20	30†		TWT§	AM		CO	10 △
31	L3977	7050M	3.0 †	5.700G - 8.400G	CW			50†		TWT	AM			2.0 △
32#	RW86	7100M	15	5.80G-8.50G	CW	2900	46m	40†	22	TWT§			CO	46.3
33#	TOP1270	7.2G	1.0	5.9G-8.5G	CW	1.7k	7.0m	40	30	TWT§	AM		CO	1.0
34	WJ440	7250M	600	5.500G - 9.000G	CW	8300	.49			TWT§			CO	8.0 △
35	237H	7350M	40	7.000G - 7.700G	CW	4700	.07	40		TWT§	AM		CO	3.0 △
36#	W4/1G	7400M	8.0 *	7.000G - 7.800G	CW	3500	.05	37†	26	TWT*	AM		WA	.23
37#	YH1130	7400M	10	7.100G - 7.700G	CW	3500	.04	40†		TWT§			WA	.265
38#	LB7-20E	7450M	10	7.10G-7.80G	CW	4000	50m	38	28	TWT*	AM		WA	330m
39#	LB7-20	7450M	18 †	7.200G - 7.700G		3300	.042	38	28	TWT	AM			
40	WJ474	7450M	1000 †	5.900G - 9.000G	CW	9600		30†		TWT#			CO	50
41	A1457	7500M	1.0 †	5.00G-10.0G	CW	950	7.0m	35†	35*	TWT§	AM		CO	1.6
42	WJ251-2	7500M	2.5 †	7.250G - 7.750G	CW	1600	.014	36†	30†	TWT§			CO	2.5 △
43	X1131	7500M	2.5	7.000G - 7.000G	CW	16000	.016	36		TWT§	AM		CO	.56
44	A1397	7500M	4.0	5.0G-10.0G	CW	2300	44m	43	30	TWT§	AM		CO	3.0
45	A1464	7500M	5.0	5.00G-10.0G	CW	2300	54m	35	30	TWT§	AM		CO	1.0
46	WJ231-4	7500M	35 †	7.000G - 8.000G	CW	4600		40†	30*	TWT§			CO	4.5 △
47	1165H	7625M	20	6.250G - 9.000G	CW	28 Ø§		38	30	TWT	AM		CO	10 △
48	651H	7700M	200	5.00G-10.4G	CW			30		TWT	AM	FF	WA	
49	VAX403P3	7750M	.01 †	7.000G - 8.500G	CW	120 △§		30†	7.0*	TWT	AML		CO	9.3
50	VAX403T3	7750M	.01 †	7.000G - 8.500G	CW	850	1.2m	30†	7.0*	TWT	AML		CO	9.3
51	VTX4403A2	7750M	.01 †	7.000G - 8.500G	CW	850	1.2m	30†	7.5*	TWT	AML		CO	10
52	VTX4403P2	7.75G	10m†	7.0G-8.5G	CW	§		30†	7.5*	TWT§	AML		CO	16.5
53	WJ391-1	7750M	8.0 †	7.000G - 8.500G	CW	3500		40†		TWT§			CO	1.5 △
54#	N1059	7750M	20	7.100G - 8.400G	CW	4000	.05	40	27	TWT§	AM		WA	17 *
55	WJ1181-14	7800M	2.0 *	2.600G-5.200G	CW	230 §▨†		40	30	TWT	AM		CO	16
56	WJ1181-15	7800M	2.0 *	5.200G-10.40G	CW	230 §▨†		40	30	TWT	AM		CO	16
57#	RW70	7800M	4.0	7.10G-8.50G	CW	1900	40m	37		TWT†	AM		WA	23 *
58	A1481	7800M	25	5.20G-10.4G	CW	3500	108m	40	35	TWT§*	AM		CO	700m
59#	VC731A	7850M	10	7.200G - 8.500G	CW	3400	.033	40	28	TWT	AM		WA	
60	VAX104T2	8000M	.005 †	7.500G - 8.500G	CW	850	1.0m	25†	7.5*	TWT†	AML		WA	11.5
61#	TOP1112	8000M	.01	6.900G - 11.00G	CW	1050	3.0	40†	9.0*	TWT	AM		CO	
62	VTX4403A4	8000M	.01 †	7.500G - 8.500G	CW	850	1.2m	30†	6.5*	TWT	AML		CO	10
63	F2071	8000M	1.0	5.000G - 11.00G	CW	3000	.025	60		TWT§	AM		CO	4.5
64	M5403	8000M	1.0	2.500G - 12.40G	CW	3000	.30	40	33	TWT§	AM		CO	
65	M5434	8000M	1.0 †	7.000G - 11.00G	CW	3300	.025	43†	27*	TWT§	AM		CO	6.0
66	VTH6078H1	8000M	1.0 †	5.000G - 11.00G	CW	3000	.03	60†		TWT§	AM		CO	4.5
67	EM1044	8000M	2.0	5.000G - 11.00G	CW	2000	.02	60		TWT§				
68	M5349	8000M	10	5.000G - 11.00G	CW	3100	.09	30	35	TWT§	AM		CO	
69#	TOP1223	8.000G	10	5.000G-11.000G	CW	3.200k	45m	35	30	TWT§	AM		CO	1.3
70#	TOP117	8.050G	1.0k	5.200G-10.900G	CW	11k	750m	35	35	TWT	AM		WA	77
71#	YH1080	8100M	15	7.7G-8.5G	CW	2.1k	50m	37	28	TWT	AM		WA	400
72#	YH1080/LB8-20	8100M	16	7.700G - 8.500G	CW	3600	.05	37		TWT	AM		WA	.441
73	A1427	8150M	5.0	7.9G-8.4G	CW	2300	44m	50	30	TWT§	AM		CO	3.0
74	F2080	8200M	2.0	5.400G - 11.00G	CW	2700	.037	60		TWT§	AM		CO	1.5
75	MA2340	8250M	.01	7.500G - 10.00G				25	15	TWT§			CO	
76#	TOP1280	8250M	10 †	8.000G-8.500G	CW	200	35m	36†		TWT§	AM		CO	1.33 *
77	1153H	8250M	20	7.000G - 9.500G	CW	28 Ø§		30	30	TWT	AM		CO	10 △
78	L5026	8500M	2.0 †	7.000G - 10.00G	CW	2200	.035	60†	30	TWT§	AM		CO	2.0 △
79	WJ391-2	8500M	5.0 †	8.350G - 8.650G	CW	3500		24†		TWT§			CO	1.5 △
80	L5006	8500M	10 †	7.000G - 10.00G	CW	3050	.075	55†		TWT*§	AM		WA	3.02
81#	N1062	8750M	3000	8.420G - 9.080G	CW	32000	1.5	17		TWT†	AM	VT	WA	85
82	6996	8800M	10	8.000G - 9.600G	CW	3400	.051	30		TWT	AM		CO	
83	F6996	8800M	10	8.000G - 9.600G	CW	3400		30		TWT	AM		CO	1.44
84	STX4630	8875M	2.0	8.700G - 9.050G	CW	2300	.022	40		TWT*§	AM		CO	2.0
85	WJ345-7	8900M	.001 †	8.500G - 9.300G	CW	115 △▨§		25†	5.5*	TWT†	AML		CO	18
86	M5142	8900M	.005 †	7.050G - 10.75G	CW	1250	.001	30†	11*	TWT§	AM		CO	
87	M5239	8900M	.005 †	7.050G - 10.75G	CW	1350	.001	37†	11*	TWT§	AM		CO	
88	VAX811T1	8900M	1000 †△	8.200G - 9.600G	.01	11000	1.5	35†		TWT§*	AM		WA	5.0 △
89	WJ345-8	9000M	.0003 †	7.000G - 11.00G	CW	115 △▨§		25†	6.0*	TWT†	AML		CO	18
90#	VC732A	9000M	.003	8.500G - 9.500G	CW	880	.20m	23	6.5	TWT	AM		WA	1.7 §
91	ZM3207	9.0G	3.0m	6.0G-12G	CW	850	1.2m	25†	10†	TWT†	AML		CO	8.6
92	L5118	9000M	.005 †	7.000G - 11.00G	CW	1300	.002	30†	12*	TWT*§	AM		CO	1.7
93	L5138	9000M	.005	7.000G - 11.00G	CW	1150	.002	25	15	TWT	AM		CO	1.7 △
94	JANM2106G	9000M	.005 †	7.000G - 11.00G	CW	1400	.002	42*	15*	TWT§	AM		CO	5.0 △
95	VAX104T1	9000M	.005 †	7.000G - 11.00G	CW	850	1.0m	25†	10*	TWT†	AML		CO	11.5
96	VAX415P3	9000M	.005 †	7.000G - 11.00G	CW	115 △§		25†	7.5*	TWT	AML		CO	6.5
97	VTX4403A1	9000M	.005 †	7.000G - 11.00G	CW	850	1.2m	25†	8.0*	TWT	AML		CO	10
98	VTX4403P1	9.0G	5.0m†	7.0G-11G	CW	§		25†	8.0*	TWT§	AML		CO	16.5
99	ZM3088	9000M	.005	7.000G - 11.00G	CW	850	.85m	25†	12*	TWT	AML		CO	
100	VTX4403A3	9000M	.008 †	7.000G - 11.00G	CW	850	1.2m	28†	9.0*	TWT	AML		CO	10
101	VTX4403P3	9.0G	8.0m†	7.0G-11G	CW	§		28†	9.0*	TWT§	AML		CO	16.5
102	A1304	9000M	.01 †	7.000G - 11.00G	CW	1200	.75m	30†	10*	TWT*§	AML		CO	4.0
103	A1351	9000M	.01 †	7.000G - 11.00G	CW	1380	.80m	40†		TWT*§	AM		CO	3.0
104#	F4026	9000M	.01	6.900G - 11.10G	CW	1000	.001	40	11	TWT§	AM		CO	2.2
105	M2105J	9000M	.01	7.000G - 11.00G	CW	1300	1.5m	30	11	TWT*§	AML		CO	
106	M5359	9000M	.01	7.000G - 11.00G	CW	1200	.001	30	11	TWT§	AM		CO	
107	M5399	9.0G	10m	7.0G-11G	CW	1.2k	2.5m	30	10	TWT§	AML		CO	
108	MA2337	9000M	.01	7.000G - 11.00G				30	15	TWT§			CO	
109	VTX4204A2	9000M	.01	7.000G - 11.00G	CW	1250	.001	37†	10*	TWT§	AM		CO	4.5
110	VTX4204P2	9.0G	10m	7.0G-11G	CW	§		37†	10*	TWT	AM		CO	8.0

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY
(3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	VTX4204P5	9.0G	10m	7.0G-11G	CW	§		35†	12*	TWT	AM		CO	8.0
2	ZM3266	9000M	.01 †	7.000G - 11.00G	CW	900	.001	30†	8.5*	TWT*§	AML		CO	5.5
3	ZM3105	9000M	.015	7.000G - 11.00G	CW	800	.75m	35†	15*	TWT	AM		CO	
4	VTX4204A1	9000M	.02	7.000G - 11.00G	CW	1250	.001	37†	10*	TWT§	AM		CO	4.5
5	VTX4204P1	9.0G	20m	7.0G-11G	CW	§		37†	10*	TWT	AM		CO	8.0
6	VTX4218P1	9.0G	20m	7.0G-11G	CW	§		35†	10*	TWT	AM		CO	3.5
7	VTX4218P3	9.0G	20m	8.0G-10G	CW	§		35†	10*	TWT	AM		CO	3.5
8	A1379	9000M	30m	7.0G-11.0G	CW	1350	6.0m	30		TWT§*	AM		WA	5.0
9	WJ363-3	9000M	.035 †	8.000G - 10.00G	CW	115 §Δ⍁		30†	7.0*	TWT†	AML		CO	18 Δ
10	JANM5059A	9.000G	100m	7.000G-11.00G	CW	1.5k	1.0m	47*	10	TWT§	AML		CO	5.0 Δ
11	MA2338	9000M	1.0	7.000G - 11.00G				30	20	TWT§			CO	
12	MA2351	9000M	1.0	7.000G - 11.00G				60	35	TWT§			CO	
13	A1428	9000M	2.0	7.0G-11.0G	CW	2300	44m	40	30	TWT§	AM		CO	3.0
14	M5328	9000M	2.0	7.000G - 11.00G	CW	3300	.03	43	27	TWT§	AM		WA	
15	M5658	9000M	2.0	7.000G - 11.00G	CW			40	20	TWT	AM		WA	
16	WJ469-1	9000M	2.0 †	7.000G - 11.00G	CW	3400		28†		TWT§			CO	4.5
17	M5427	9000M	3.0	7.000G - 12.00G	CW	3000	.30	60	33	TWT§	AM		CO	
18	WJ492-1	9.0G	3.0 †	7.0G-11G	CW	3.3k	30m	42†	22*	TWT	AM		CO	2.0 Δ
19	WJ1181-8	9000M	3.0 *	7.000G-11.00G	CW	230 §⍁†		43	22	TWT	AM		CO	16
20	732H	9000M	5.0	8.000G - 10.00G	CW	1800	.03	40		TWT§	AM		CO	1.0 Δ
21	M2404H	9000M	5.0	7.000G - 11.00G	CW	3600	.06	30	35	TWT*	AM		CO	
22	VTX6088H5	9000M	5.0 †	7.000G - 11.00G	CW	3400	.04	60†		TWT§	AM		CO	4.5
23	WJ391	9000M	5.0 †	7.000G - 11.00G	CW	3300	.03	42†	30*	TWT§	AM		CO	1.5
24	A1378	9000M	10	7.0G-11.0G	CW	3000	51m	40	30	TWT§	AM		CO	3.0
25	L3815	9000M	200 Δ	7.000G - 11.00G	.01	7500	.70	30		TWT*§	AM		WA	5.5
26	F2041	9000M	1000	7.000G - 11.00G	.01	10000	1.8	33		TWTØ	AM		CO	
27	F2048Δ	9000M	1000	7.000G - 11.00G	.005	10000	1.8	33		TWTØ	AM		CO	
28	F7340	9000M	1000	7.000G - 11.00G	.005	12000	3.0	30		TWTØ	AM		CO	1.44
29	L3994	9000M	1000 †	7.000G - 11.00G	.01	11000	1.8	40	35	TWT	AM		CO	6.0 Δ
30	726H	9000M	25kΔ†	8.500G - 9.500G	.005	30000	9.0	40		TWT*	AM		WA	25
31	713H	9000M	100k	8.90G-9.10G	5.0m		9.4	16		TWT	AM	FF	WA	10
32	WJ345-2	9050M	.25m†	8.500G - 9.600G	CW	115 Δ§		25	5.5*	TWT†	AML		WA	30 Δ
33	VAX104T4	9050M	.005 †	8.500G - 9.600G	CW	850	1.0m	25†	7.0*	TWT†	AML		WA	11.5
34	VAX104T5	9050M	.005 †	8.500G - 9.600G	CW	850	1.0m	25†	8.0*	TWT†	AML		WA	11.5
35	M5127	9050M	.01	8.900G - 9.200G	CW	1300	2.9m	25		TWT§	SER		CO	
36	VAX403P5	9050M	.01 †	8.500G - 9.600G	CW	120 Δ§		30†	7.0*	TWT	AML		CO	9.3
37	VAX403T5	9050M	.01 †	8.500G - 9.600G	CW	850	1.2m	30†	7.0*	TWT	AML		CO	9.3
38	VAX415P2	9050M	.01 †	8.500G - 9.600G	CW	115 Δ§		25†	6.5*	TWT	AML		CO	6.5
39	VTX4204A4	9050M	.01	8.500G - 9.600G	CW	1250	.001	40†	9.0*	TWT§	AM		CO	4.5
40	VTX4204P4	9.05G	10m	8.5G-9.6G	CW	§		40†	9.0*	TWT	AM		CO	8.0
41	VTX4403A5	9050M	.01 †	8.500G - 9.600G	CW	850	1.2m	30†	7.5*	TWT	AML		CO	10
42	VTX4403P5	9.05G	10m†	8.5G-9.6G	CW	§		30†	7.5*	TWT§	AML		CO	16.5
43	VTX4405A3	9050M	.01 †	8.500G - 9.600G	CW	1000	1.2m	30†	7.0*	TWT	AML		CO	10
44	VTX4405P3	9.05G	10m†	8.5G-9.6G	CW	§		30†	7.0*	TWT§	AML		CO	16.5
45	VTX4218P2	9.05G	20m	8.5G-9.6G	CW	§		40†	9.5*	TWT	AM		CO	3.5
46	L3898	9050M	2.0	8.500G - 9.600G	.008	2600	.037	22		TWT	AM		WA	3.0 Δ
47	L5086	9050M	2.0	8.500G - 9.600G	CW	2000	.035	45	30	TWT§	AM		CO	1.5 Δ
48	7340	9050M	1000	8.500G - 9.600G	.005	12000	3.0	30		TWT	AM		CO	
49	D95A	9050M	1000	8.500G - 9.600G	.005	12000	3.0	30		TWT	AM		WA	
50	D95B	9050M	1000	8.500G - 9.600G	.005	12000	3.0	30		TWT	AM		CO	
51	VTX5380A1	9050M	1000 †Δ	8.800G - 9.300G	.01	10000 Ø	1.0 Ø	36†		TWT§	AM		WA	4.0
52	ZM3090	9050M	5000 †	8.500G - 9.600G	.005	17000	4.0	30†		TWT	AM		WA	
53	ZM3124	9050M	5000 †	8.500G - 9.600G	.005			50†		TWT	AM		WA	
54	VAX803T1	9050M	10k†Δ	8.500G - 9.600G	.01	24000	5.0	40†		TWT§			WA	14
55	VTX5381A1	9050M	10k†Δ	8.500G - 9.600G	.01	25000 Ø	5.0 Ø	37†		TWT§	AM		WA	15
56	ZM3127	9050M	10000 †	8.500G - 9.600G	.01			35†		TWT	AM		WA	
57	ZM3118	9050M	20000 †	8.500G - 9.600G	.005			35†		TWT	AM		WA	
58	ZM3086	9050M	50000 †	8.500G - 9.600G	.005			60†		TWT	AM		WA	
59	ZM3125	9050M	100k†	8.500G - 9.600G	.005			35†		TWT	AM		WA	
60	ZM3091	9050M	250k†	8.500G - 9.600G	.004	85000	24	20		TWT	AM		WA	
61#	9W90	9080M	.003	8.950G - 9.200G	CW	1300	.31m	23	6.5	TWT	AML		WA	
62	VTX4405A4	9100M	.005 †	9.000G - 9.200G	CW	1000	1.2m	30†	6.5*	TWT	AML		CO	10
63	VTX4405P4	9.1G	5.0m†	9.0G-92G	CW	§		30†	6.5*	TWT§	AML		CO	16.5
64	M5222	9100M	1.0 †	8.200G - 10.00G	CW	2300	.025	40†	35*	TWT§	AM		CO	
65	1076H	9100M	2000	8.600G - 9.600G	.013	200 §⍁Ø	2.5	33		TWT	AM			100 Δ
66#	N1063	9200M	3000	8.820G - 9.580G	CW	32000	1.5	17		TWT†	AM	VT	WA	85
67	1114H	9200M	10000	8.700G - 9.700G	.01	120 §Δ	12.5			TWT	AM			200 Δ
68#	F4102B	9250M	.01	8.000G - 10.50G	CW	1400	.004	40	11	TWT§	AM		CO	2.0
69#	LA9-3B	9250M	10m	7.00G-11.50G	CW	1450	60u	30	24*	TWT*	AM		WA	7.5
70	A1203	9250M	1.0 †	7.500G - 11.00G	CW	2950	.012	32†		TWT§	AM		WA	6.0
71	M2403N	9250M	1.0	7.500G - 11.00G	CW	3250	.02	30	35	TWT*§	AM		WA	
72	A1181	9350M	25 †Δ	7.500G - 11.20G	.05	6500	5.5m	27†		TWT*§	AM		WA	6.0
73	714H	9400M	40000	9.300G - 9.500G	.005	26000	6.8	16		TWT*§	AM		WA	10 Δ
74#	YH1060	9500M	2.0m	9.00G-10.00G	CW	1600	50u	25	8.0	TWT*	AM		WA	
75#	YH1060/LA9-2	9500M	.004	8.000G - 11.00G	CW	1300	.50u	25	8.5*	TWT	AM		WA	
76	M5277	9500M	.005 †	7.000G - 12.00G	CW	1300	.001	25†	12*	TWT§	AM		CO	
77	L5023	9500M	.01 †	7.000G - 12.00G	CW	800	.006	30†		TWT§	AM		CO	.044
78	VAX403P6	9500M	.01 †	9.000G - 10.00G	CW	120 Δ§		30†	7.0*	TWT	AML		CO	9.3
79	VAX403T6	9500M	.01 †	9.000G - 10.00G	CW	850	1.2m	30†	7.0*	TWT	AML		CO	9.3
80	VTX4403A6	9500M	.01 †	9.000G - 10.00G	CW	850	1.2m	30†	7.5*	TWT	AML		CO	10
81	VTX4403P4	9.5G	10m†	9.0G-10G	CW	§		30†	7.5*	TWT§	AML		CO	16.5
82	MA2309	9500M	.50	8.000G - 11.00G				30	35	TWT			CO	
83	M5378	9500M	2.0	8.000G - 11.00G	CW	3300	.042	41		TWT§	AM		CO	
84	MA2349	9500M	2.0	8.000G - 11.00G				30	35	TWT§			CO	
85	A1181V2	9500M	3.0 †Δ	8.000G - 11.00G	.05	6500	5.0m	30†		TWT*§	AM		WA	6.0
86	M2201G	9600M	.01	8.200G - 11.00G	CW	1300	.003	30	30	TWT*§	AM		CO	
87	JAN8198	9600M	1.0	8.200G - 11.00G		3000	.025	60		TWT§	AM		CO	5.0 Δ
88	A1442	9700M	3.0m	7.0G-12.4G	CW	950	600u	30	12	TWT§*	AM		CO	1.6
89	A1383	9700M	5.0m	7.4G-12.0G	CW	1050	.60m	33	20	TWT*§	AM		CO	1.6
90	M5241	9700M	.02 †	7.000G - 12.40G	CW	1300	.003	30†	30*	TWT§	AM		CO	
91	A1386	9700M	200m	7.4G-12.0G	CW	1800	12m	40		TWT§	AM		CO	1.6
92	J2053	9700M	200m	7.4G-12.0G	CW	115 §⍁		40		TWT§	AM		CO	5.5
93	MA2345	9700M	1.0	7.000G - 12.40G				30	30	TWT§			CO	
94	WJ1181-7	9700M	1.0 *	7.000G-12.40G	CW	230 §⍁†		30	30	TWT	AM		CO	16
95	WJ2503	9700M	1.0 †	7.00G-12.4G	CW	2700	20m	41	25	TWT§*	AM		CO	3.5 Δ
96	WJ2503-1	9700M	1.0 †	7.000G-12.400G	CW	2700	30m	30†	25	TWT	AM		CO	3.5 Δ
97	WJ2513	9700M	1.0 †	7.00G-12.4G	CW	2700	20m	41	25	TWT§*	AM		CO	3.5 Δ
98	M5288	9700M	2.0 †	7.000G - 12.40G	CW	3500	.06	30†	35*	TWT	AM		CO	
99#	TOP1513	9700M	200 †	7.000G-12.4G	CW	7.0k	270m	50†		TWT§	AM		CO	5.3 *
100#	N1064	9740M	3000	9.350G - 10.13G	CW	32000	1.5	17		TWT†	AM	VT	WA	85
101	A1459	9750M	1.0 †	7.50G-12.0G	CW	1950	12.5m	40†		TWT§	AM		CO	1.6
102	A1434	9800M	10m†	7.60G-12.0G	CW	1020	600u	33†	15*	TWT*§	AM		CO	2.0
103	A1436	9800M	200m†	7.60G-12.0G	CW	1850	10m	45†		TWT§	AM		CO	1.6
104	WJ345-1	10000M	.32m	8.000G - 12.00G	CW	115 Δ§		25†	6.0*	TWT†	AML		WA	30 Δ
105	M5144	10000M	.005 †	8.000G - 12.00G	CW	1300	.10m	30†	13*	TWT§	SEA			6.5
106	M5227	10000M	.005 †	8.000G - 12.00G	CW	1300	.001	25†	10*	TWT§	AML		WC	
107	VAX104T3	10000M	.005 †	8.000G - 12.00G	CW	850	1.0m	25†	10*	TWT†	AML		WA	11.5
108	VAX415P1	10000M	.005 †	8.000G - 12.00G	CW	115 Δ§		25†	7.5*	TWT	AML		CO	6.5
109	VTX4405A1	10000M	.005 †	8.000G - 12.00G	CW	1000	1.2m	25†	8.0*	TWT	AML		CO	10
110	VTX4405P1	10G	5.0m†	8.0G-12G	CW	§		25†	8.0*	TWT§	AML		CO	16.5

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	ZM3128	10000M	.005	8.000G - 12.00G	CW	850	.85m	25†	12*	TWT	AML		CO	
2	ZM3267	10000M	.005 †	8.000G - 12.00G	CW	900	.001	30†	8.5*	TWT*§	AML		CO	5.5
3	WJ297-5	10000M	.0055 †	8.000G - 12.00G	CW	115 §Δ⍁		28†	10*	TWT†	AML		CO	6.0 Δ
4	VTX4405A2	10000M	.006 †	8.000G - 12.00G	CW	1000	1.2m	28†	9.0*	TWT	AML		CO	10
5	VTX4405P2	10G	6.0m†	8.0G-12G	CW	§		28†	9.0*	TWT§	AML		CO	16.5
6	A1422	10G	10m†	8.00G-12.0G	CW	1100	1.3m	30†	10*	TWT*§	AM		CO	5.0
7	VTX4204A3	10000M	.01	8.000G - 12.00G	CW	1250	.001	33†	10*	TWT§	AM		CO	4.5
8	VTX4204P3	10G	10m	8.0G-12G	CW	§		33†	10*	TWT	AM		CO	8.0
9	WJ453	10000M	.01 †	8.000G - 12.00G	CW	115 Δ⍁§		25†	8.0*	TWT†	AML		CO	4.0
10	VAX415P4	10000M	.02 †	8.000G - 12.00G	CW	115 Δ§		25†	8.5*	TWT	AML		CO	6.5
11	WJ384	10000M	.02	8.000G - 12.00G	CW	115 Δ⍁§		30	7.5	TWT†	AML		CO	18 Δ
12	WJ403	10000M	.02	8.000G - 12.00G	CW	115 Δ⍁§		25†	9.0*	TWT§	AML		CO	8.0 Δ
13	WJ424-16	10000M	.03 †	8.000G - 12.00G	CW	115 Δ⍁§		28†	9.0*	TWT†	AML		CO	6.5
14	WJ399	10000M	.075 †	8.000G - 12.00G	CW	115 §Δ⍁		30†	10*	TWT†	AML		CO	18 Δ
15	WJ399-2	10000M	.085 †	8.000G - 12.00G	CW	115 §Δ⍁		30†	11*	TWT†	AML		CO	18 Δ
16	4041	10000M	1.0	8.0G-12.0G	CW	3000	12.5m	34		TWT§*	AM		WA	6.0
17	VTX6088H1	10000M	1.0 †	8.000G - 12.00G	CW	3000	.025	60†		TWT§	AM		CO	4.5
18	A1177	10000M	2.0 †	8.00G-12.0G	CW	3000	21m	36†		TWT*§	AM		WA	6.3
19	F2018	10000M	5.0	8.000G - 12.00G	CW	3850	.06	30		TWT§	AM		CO	6.5
20	F2072	10000M	10	8.000G - 12.00G	CW	3900	.06	30		TWT§	AM		CO	6.5
21#	VTX2617A1	10G	13	8.0G-12G	CW	4.3k	32m	30		TWT§	AM		WG	7.5 *
22	X1056A	10000M	20	8.000G - 12.00G	CW	3600	.095	60		TWT§	AM		CO	
23	MA2315	10200M	.003	8.000G - 12.40G				25	10	TWT			CO	
24	L2304	10200M	10m	8.000G-12.40G				30	25	TWT			CO	
25	M5360	10200M	.01	8.000G - 12.40G	CW	1250	.001	30	12	TWT§	AM		CO	
26	MA2304	10200M	.01	8.000G - 12.40G				30	25	TWT			CO	
27	MA2329	10200M	.01	8.000G - 12.40G				30	30	TWT§			CO	
28	MA2310	10200M	.10	8.000G - 12.40G				25	30	TWT			CO	
29	WJ492-2	10.2G	3.0 †	8.0G-12.4G	CW	3.2k	40m	60†	22*	TWT*	AM		CO	2.0 Δ
30	WJ1181-9	10.20G	3.0 *	8.000G-12.40G	CW	230 §⍁†		42	22	TWT	AM		CO	16
31	WJ1181-10	10.20G	5.0 *	8.000G-12.40G	CW	230 §⍁†		60	22	TWT	AM		CO	16
32	WJ3805-1	10200M	5.0 †	8.00G-12.4G	CW	3200	40m	62	20	TWT§*			CO	2.0 Δ
33	M5629	10200M	100 †	8.000G - 12.40G	CW	6300	.20	40†		TWT§	AM		CO	7.0
34	VTX6280A1	10200M	100 †	8.000G - 12.40G	CW	4950	.225	30†	35	TWT§	AM			4.75
35	VTX6280H1	10200M	100 †	8.000G - 12.40G	CW	4950	.225	50†	40	TWT§	AM			5.5
36	A1446	10250M	20 †	9.80G-10.7G	CW	3700	60m	47†	30*	TWT§	AM		WA	10.0
37	WJ350-1	10250M	35 †	8.000G - 12.50G	CW	4700	.067	40†	35*	TWT§	AM		CO	4.0
38	VTX6181A1	10300M	20 †	8.200G - 12.40G	CW	3600	.09	54†	27	TWT§	AM		CO	3.0
39	M5361	10700M	.01	7.000G - 12.40G	CW	1200	.001	30	12	TWT§	AM		CO	
40	WJ363-4	11000M	.035 †	10.00G - 12.00G	CW	115 §Δ⍁		30	7.5*	TWT†	AML		CO	18 Δ
41#	11W30	11000M	4.0	10.00G - 12.00G	CW	3000	.025	40		TWT§	AM		WA	
42#	LD593A	11000M	5.0	10.60G - 11.70G	CW	4300	.001	35	24	TWT§	AM		WA	.60
43#	VC740A	11000M	11.5	10.00G - 12.00G	CW	4300	.03	38.5		TWT	AM		WA	
44	773H	11.000G	100	8.000G-14.000G	CW	8.500k	400m	40		TWT§	AM			5.0
45#	11W18	11100M	1.0	10.00G - 12.00G	CW	2700	.01	32		TWT§	AM		WA	
46#	VC733A	11200M	1.1	10.70G - 11.70G	CW	2500	9.9m	30		TWT	AM		WA	
47	4079	11200M	10 †	10.70G-11.70G	CW	3700	46m	41†	28*	TWT§	AM		WA	9.2
48	A1443	11.2G	15	10.7G-11.7G	CW	3800	45m	41	28	TWT§	AM		WA	9.2
49	A1390	11.2G	20	10.7G-11.7G	CW	3800	55m	44	30	TWT§	AM		WA	9.2
50#	VC782	11300M	4.0	10.70G - 11.70G	CW	3000	.019	40	25	TWT§	AM		WA	
51	A1438	11500M	3.0m	7.00G-16.00G	CW	1150	600u	35	15	TWT§*	AM		CO	1.6
52	274H	11500M	5.0	10.00G-13.00G	CW	2900	16m	45		TWT	AM	FF	WA	1.2
53	WJ350	11500M	35 †	10.50G - 12.50G	CW	4700		40†		TWT§			CO	3.0 Δ
54	A1440	11.8G	500m	7.6G-16.0G	CW	2350	13m	50		TWT§	AM		CO	1.6
55	A1399	11800M	1.0 †	7.60G-16.0G	CW	2350	13m	40†		TWT§	AM		CO	1.6
56	A1456	11.95G	28	10.7G-13.2G	CW	4100	70m	45	25	TWT§	AM		WA	10
57	M9220E	12000M	32m†	7.00G-17.0G	CW	115 §Δ⍁		35†	14*	TWT	AM		CO	4.0 Δ
58	A1476	12000M	750m†	8.00G-16.00G	CW	2300	11m	54†		TWT§*	AM		CO	1.6 Δ
59#	TOP1266	12G	1.0	10G-14G	CW	1.8k	7.0m	40	30	TWT§	AM		CO	1.0
60	WJ2504	12000M	1.0 †	8.00G-16.0G	CW	3500	30m	40	25	TWT§*	AM		CO	3.5 Δ
61	WJ2514	12000M	1.0 †	8.00G-16.0G	CW	3500	30m	40	25	TWT§*	AM		CO	3.5 Δ
62	A1466	12G	2.0	8.0G-16.0G	CW	3800	37m	30	24	TWT§	AM		CO	.75
63	WJ1181-11	12.00G	3.0 *	8.000G-16.00G	CW	230 §⍁†		38	24	TWT	AM		CO	16
64	A1444	12000M	10 †	8.00G-16.0G	CW	3800	60m	40†	30*	TWT*§	AM		CO	3.0
65	A1465	12000M	10	8.00G-16.0G	CW	3800	61m	30	30	TWT§	AM		CO	1.0
66	A1487	12000M	10	7.00G-17.00G	CW	3000	75m	50	35	TWT§*	AM		CO	1.0
67#	RW1110	12.000G	10	10.700G-13.200G	CW	3.5k	45m	40	25	TWT	AM		WA	
68	A1494	12000M	15	7.00G-17.00G	CW	3100	88m	40	35	TWT§*	AM		CO	750m
69#	RW1120	12.000G	20	10.700G-13.200G	CW	4.4k	60m	43	25	TWT§	AM		WA	7.0 *
70	A1496	12000M	40	8.00G-16.00G	CW	3500	110m	60	35	TWT§*	AM		CO	1.0
71	4093	12050M	10	7.60G-16.50G	CW	4000	56m	35	35	TWT§*	AM		CO	3.0
72	VAU404P1	12125M	.005 †	9.750G - 14.50G	CW	120 Δ§		30†	11*	TWT†	AML		WA	9.3
73	VAU404T1	12125M	.005 †	9.750G - 14.50G	CW	1200	1.2m	30†	11*	TWT†	AML		WA	9.3
74	VTU4404A1	12125M	.005 †	9.750G - 14.50G	CW	1200	1.2m	30†	15*	TWT	AM		WA	10
75	VTU4404P1	12.125G	5.0m†	9.75G-14.5G	CW	§		30†	15*	TWT§	AM		WA	16.5
76	WJ446	12750M	5.0 †	11.50G - 14.00G	CW	4200	.003	39†		TWT§	AML		CO	4.0 Δ
77	A1455	12.82G	28	12.7G-12.95G	CW	4100	65m	40	30	TWT§	AM		WA	10
78	4098	12875M	25	12.70G-12.95G	CW	4000	67m	40	35	TWT§*	AM		CO	3.0
79	WJ307-5	13000M	.0005 †	10.00G - 16.00G	CW	115 Δ⍁§		25†	10*	TWT§	AML		WA	18 Δ
80	VTU4404A2	13000M	.003 †	12.00G - 14.00G	CW	1200	1.2m	15†	10*	TWT	AML		WA	10
81	VTU4404P2	13G	5.0m†	12G-14G	CW	§		25†	10*	TWT§	AML		WA	16.5
82	A1484	13000M	10	8.00G-18.00G	CW	3300	66m	45	35	TWT§*	AM		CO	750m
83	A1478	13000M	16	8.00G-18.0G	CW	3000	83m	40		TWT§*	AM		CO	600m
84	A1460	13.5G	15	13.0G-14.0G	CW	3900	61m	50	30	TWT*§	AM		CO	3.0
85	A1486	14200M	25	10.40G-18.00G	CW	3200	103m	40	35	TWT§*	AM		CO	600m
86	WJ307-15	14350M	.0055 †	10.70G - 18.00G	CW	115 §Δ⍁		25†	11*	TWT†	AML		WA	18 Δ
87#	F4156B	14500M	10m†	11G-18G	CW	1.5k	450m	35	13	TWT§	AM		WA	2.21
88#	TOP4156	14500M	15m	11G-18G	CW	1500	1.0m	35	16	TWT	AM		CO	2.0
89	A1480	14500M	20 †	11.00G-18.00G	CW	3300	70m	40†	30	TWT§*	AM		CO	600mΔ
90#	15W70	14825M	6.0	14.40G - 15.25G	CW	4300	.025	43	26	TWT§	AM		WA	
91	A1215	15000M	.01 †	12.00G - 18.00G	CW	2200	.003	30†		TWT*§	AM		WA	3.75
92	A1398	15000M	10m†	12.000G-18.000G	CW	2.2k	3.0m	35†		TWT§	AM		CO	1.8
93	A1421	15.000G	10m†	12.000G-18.000G	CW	2.2k	3.0m	35†		TWT*§	AM		CO	5.0
94	WJ454	15000M	.01 †	12.00G - 18.00G	CW	115 Δ⍁§		25†	10*	TWT†	AML		WA	4.0
95	WJ465	15000M	.01 †	12.00G - 18.00G	CW	115 §Δ⍁		40†	12*	TWT§	AM		WA	4.0 Δ
96	A1225	15000M	1.0 †	12.00G - 18.00G	CW	4100	.015	30†		TWT*§	AM		WA	6.0
97	M5660	15000M	1.0	12.00G - 18.00G	CW	3400	.03	30	35	TWT	AM		WA	
98	WJ1181-12	15.00G	1.0 *	12.00G-18.00G	CW	230 §⍁†		30	30	TWT	AM		CO	16
99	WJ1181-13	15.00G	2.0 *	12.00G-18.00G	CW	230 §⍁†		38	25	TWT	AM		CO	16
100	M5121	15200M	.005	12.40G - 18.00G	CW	1300	1.5m	30	17	TWT§	AML		WA	
101	M5201	15200M	.005 †	12.40G - 18.00G	CW	1300	.001	25†	12*	TWT§	AM		WA	
102	818H	15200M	10 †	12.40G - 18.00G	CW	3500	.045	35		TWT§	AM		CO	2.0 *
103	VTU6290A1	15200M	50 †	12.40G - 18.00G	CW	6350	.20	30†	35	TWT§	AM			5.0
104#	TOP1482	15700M	100	12.400G-18.000G	CW	6.7k	5.0m	30		TWT	AM		CO	3.5
105	WJ438-1	15950M	100k†	15.90G - 16.00G	.004	62000		50†		TWT§			CO	20
106	ZM3031	16000M	.005	14.00G - 18.00G	CW	1200	.71m	25†	14*	TWT	AML		WA	
107	M2405G	16000M	1.0	12.00G - 18.00G	CW	3300	.03	30	35	TWT*	AM		WA	
108	ZM5183	16000M	10	14.00G - 18.00G	CW	4100	.065	30†		TWT	AM		WA	
109	1205H	16.500G	5.0k	16.000G-17.000G	5.0m					TWT	AM			140
110	JANM5056A	18.0G	100m	10.00G-26.00G	CW	700	2.0m		12	TWT§	AM		CO	6.0 Δ

DISCONTINUED

X 2. SOURCE,AMPLIFIER,OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION				
										1 TUBE TYPE	FUNC-TION	TUN-ING	OUT PUT	WEIGHT (lb)
1	824H	18500M	200	17.50G - 19.50G	CW	7300	.30	30		TWTØ	AM		WA	162 Δ
2	WJ393-8	19250M	.003 †	18.50G - 20.00G	CW	115 Δ⧄§		25†	9.0*	TWT†	AML		WA	25
3	WJ393-4	22000M	.003 †	20.00G - 24.00G	CW	115 Δ⧄§		35†	15*	TWT†	AML		WA	18
4	ZM3115	22250M	.001	18.00G - 26.50G	CW			25†	13*	TWT	AML		WA	
5	WJ393-6	22250M	.01 †	18.00G - 26.50G	CW	115 Δ⧄§		25†	11*	TWT†	AML		WA	18
6#	M7894	30G	300	29.00G-31.00G	CW	16000	300m	33		TWTØ	AM		WA	22
7	VTA6600A1	30.5G	2.0k	30.00G-31.00G		15k	1.3	30		TWTØ	AM			11 §
8	WJ338-6	31000M	.003 †	28.00G - 34.00G	CW	115 Δ⧄§		25†	15*	TWT†	AML		WA	25
9	M5664	32000M	.015	30.00G - 34.00G	CW			35	16	TWT	AM		WA	
10	F4115	32000M	.05	29.00G - 35.00G	CW	2500		20†	12*	TWT†	AM			17 *
11	530H	32.000G	600 Δ	29.000G-35.000G	40m	7.000k	1.2	30		TWT§	AM		CO	14
12	ZM3116	33000M	.001	26.00G - 40.00G	CW			20†	15*	TWT	AML		WA	
13	WJ467	33000M	.01 †	26.50G - 40.00G	CW	115 Δ⧄§		30†	16*	TWT§	AML		WA	6.5
14	WJ338-5	35000M	.003 †	34.00G - 36.00G	CW	115 Δ⧄§		25†	13*	TWT†	AML		WA	25
15	236H	35000M	20	34.00G - 36.00G	CW	7200	.04	30		TWT§	AM		CO	1.5 Δ
16	ZM3040	37500M	.003	35.00G - 40.00G	CW	2500	.70m	20†	15*	TWT	AML		WA	
17	X1133	61500M	2000	59.00G - 64.00G	.001	28 §Ø	2.9	40		TWT	AM			
18	WJ449	62500M	.003 †	50.00G - 75.00G	CW	115 Δ⧄§		25†	19*	TWT†	AML		WA	
19	X1134	65000M	20 †	50.00G - 80.00G		28 §Ø	5.4	25		TWT	AM			
20	X1132	75000M	2.5 †	70.00G - 80.00G		28 §Ø	.50	40		TWT	AM			4.0
21	F4104	90000M	.05	85.50G - 94.50G	CW	5100		20†	15*	TWT†	AM			2.0 §
22	815H	143G	30	135.0G - 150.0G	CW	21000		12		TWTØ	AML		WA	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

DISCONTINUED

X 3. DUPLEXER TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)INCIDENT POWER (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 INCIDENT POWER (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. PULSE WIDTH (s)	RECOVERY TIME (s)	MAX. VSWR	LEAKAGE		MAX. INSERTION LOSS (dB)	DESCRIPTION			
									SPIKE (ergs)	FLAT (W)		1 TUBE TYPE	FEATURES	OUTPUT	LIFE (hr)
1	1B36	2400M						25				ATR			
2	JAN6621	2800M	2.5M	2.52G-3.08G	2.2u		50u*				500m	ATR			500 †
3	1B37	8746M						25				ATR			
4	1B35	9320M						25				ATR			
5	JAN6619	2800M	5.0M	2.52G-3.08G	2.2u		25u*				600m	PTR			500 †
6	8738	3615M	1.1M*	3.53G-3.70G			2.0u	1.18			250m	PTR	BPØØ	WA	
7	8739	3615M	1.1M*	3.53G-3.70G			2.0u	1.18			250m	PTR	BP	WA	
8	8088	400M	15k*	200M-600M	50m	6.0u	200u				1.8 Ø	TR	BPCM	WA	
9	7901	450M	30k*	300M-600M	1.8u	6.0u	150u				2.0 Ø	TR	BPCM	WA	
10	7902	450M	3.0M*	300M-600M	1.8u	6.0u	200u				2.0 Ø	TR	BPCM	WA	
11	JAN1B40	1082M	1000 *	1.070G-1.095G			50u			720u*	1.0	TR			
12	7823	1300M	50k*	1.25G-1.35G			10u*	1.4		500m*	500m	TR	BP	WA	
13	8099	2775M	100k*	2.625G-2.925G			15u	1.4	300m	25m	500mØ	TR	BP	WA	
14	8623	3000M	50k*	2.90G-3.10G			20u	1.20	300m*	50m*	300m	TR	BP	WA	1.0k
15	8622	3000M	1.5M*	2.90G-3.10G			20u	1.20	1.5 *	150m*	400m	TR	BP	WA	1.0k
16	8740	3615M	200k*	3.53G-3.70G			1.0u	1.20	200m*	50m*	250m	TR	BPCM	WA	
17	8331	9034M	100k*	8.490G-9.578G			3.0u	1.9	200m	6.0m	700mØ	TR	BP	WA	
18	8574	9050M	20k*	8.50G-9.60G			3.0u	1.25	300m	100m	200mØ	TR	BP	WA	1.0k
19	JAN8599	16500M	10000 *	15.5G-17.5G	1.0m		4.0u*	1.4	200m*	50m*	600m	TR	CP	WA	500 †
20	8578	2800M	1.0M*	2.70G-2.90G			10u	1.20	100m*	200m*	800m	TRDL	BP	WA	
21	8330	9034M	500k*	8.490G-9.578G			3.0u	1.5	200m	60m	600mØ	TRDL	BP	WA	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

SECTION 5

MICROWAVE TUBE

Manufacturers' Local Offices

These manufacturers have listed their local offices in this section for your convenience. Please contact the local office nearest you for any additional information you may need.

(MANUFACTURERS IN ORDER OF D.A.T.A.CODE LETTER)

ALGG – AEG - TELEFUNKEN

	Zip Code	Telephone No.	Telex
Post 837, Soeflinger Strasse 100, Ulm/Donau, Germany	7900	(07 31) 19 11	7 12 601

APX – AMPEREX ELECTRONIC CORPORATION

	Zip Code	Telephone No.	Cable
HICKSVILLE DIVISION 230 Duffy Avenue, Long Island, New York	11802	516-931-6200	AMPRONICS HICKSVILLE

EEVB — ENGLISH ELECTRIC VALVE COMPANY LIMITED

			Zip Code	Telephone No.	Telex
Chelmsford, Essex, England			CM1 2QU	61777	99103 Cable ENELECTICO CHELMSFORD
CANADA	Ontario	English Electric Valve North America Ltd. 24 Ronson Drive, Rexdale	M9W 1B4	416-249-8548	06-965864 Cable ENELECAN TORONTO
U. S. A.	New York	Calvert Electronics International, Inc. 220 East 23rd Street New York	10010	212-679-1340	Telex 223415 Cable CALVERTRON NEW YORK TWX 710-581-4088
	California	Calvert Electronics International, Inc. Post Office Box 5066 San Jose	95150	408-265-0521	TWX 910-338-0521

AGENTS IN ALL PRINCIPAL COUNTRIES OF THE WORLD

SEE OUR AD INSIDE BACK COVER

EMIB — EMI - VARIAN LIMITED

	Zip Code	Telephone No.	Telex
248, Blyth Road, Hayes, Middlesex, England	UB3 1HR	01-573-3888	28828 Cable EMIVAR LONDON
SALES OFFICE 248, Blyth Road, Hayes, Middlesex, England	UB3 1HR	01-573-5555	Telex 28828 Cable EMIVAR LONDON

FERB – FERRANTI LIMITED

	Zip Code	Telephone No.	Telex
Gem Mill, Chadderton Oldham, Lancashire, England	OLN 8NP	061-624-0515	668038

FERS – FERRANTI LIMITED

	Zip Code	Telephone No.	Telex
Dunsinane Avenue, Dundee, Scotland	DD2 3PN	0382-89311 0382-89321	76166

			Zip Code	Telephone No.	Telex
AUSTRALIA	Victoria	Smiths Industries Pty., Ltd. Post Office Box 57	3205	69 7331	AA30986
DENMARK	Copenhagen F	Fredslund Pedersen Finsensvej 39		01-36 9050	15052
FRANCE	Paris 15e	Ceram 31, Rue du Docteur Finlay		577 42 50	25305 ATTN. CERAM
GERMANY	8 Munich 22 (FERB only)	Ferranti GmbH Widenmayerstrasse 5		089 297353	523980
ITALY	Milano	Messrs. Mottola Piazzeta Umberto Giordano 2	20122	780 231	31317
SWEDEN	Stockholm 10	Bergman & Beving AB Karlavagen 76		08/246040	19929
	Vallingby	Sonab Marketing A.B. (Agency Dept.) Sorterargatan 8	162 26	08/38 01 30	17879
U.S.A.	New York	Ferranti Electric, Inc. East Bethpage Road Plainview, Long Island	11803	516-293-8383	TWX 510-224-6483
	California (FERB only)	Roland Olander 540 Hollywood Way Burbank	91505	213-843-5200	910-498-2720

SEE OUR AD ON PAGE A-1

GESY – GENERAL ELECTRIC COMPANY

			Zip Code	Telephone No.
ELECTRONIC COMPONENTS DIVISION – TUBE PRODUCTS DEPARTMENT 316 East Ninth Street, Owensboro, Kentucky			42301	502-683-2401
ALABAMA	**Huntsville**	General Electric Company 3322 South Memorial Parkway Room 1208 Suite 4	35801	205-883-3151
ARIZONA	**Phoenix**	General Electric Company United Bank Bldg., Suite 712 3550 North Central Avenue	85012	602-264-1751
CALIFORNIA	**Los Angeles**	General Electric Company 11840 West Olympic Blvd.	90064	213-479-7763
	San Diego	General Electric Company 2560 First Avenue, Suite 110	92103	714-236-1266
COLORADO	**Denver**	General Electric Company 201 University Blvd. Post Office Box 2331	80201	303-388-5771
CONNECTICUT	**Bridgeport**	General Electric Company 1285 Boston Avenue	06602	203-334-1012
FLORIDA	**No. Palm Beach**	General Electric Company 321 Northlake Blvd. Room 209	33408	305-844-5202
	Tampa	General Electric Company 2104 Lois Avenue Post Office Box 10577	33609	813-877-8311
ILLINOIS	**Chicago**	General Electric Company 3800 North Milwaukee Avenue	60641	312-777-1600
INDIANA	**Fort Wayne**	General Electric Company 2109 East State Blvd.	46805	219-482-4557
	Indianapolis	General Electric Company 3750 North Meridian Street	46208	317-923-7221

Continued on next page

GESY – GENERAL ELECTRIC COMPANY (Cont'd)

			Zip Code	Telephone No.
ELECTRONIC COMPONENTS DIVISION – TUBE PRODUCTS DEPARTMENT 316 East Ninth Street, Owensboro, Kentucky			42301	502-683-2401
IOWA	Cedar Rapids	General Electric Company 210 Second Street, S.E. 303 Dows Building	52401	319-364-9149
KENTUCKY	Owensboro	General Electric Company 316 East 9th Street	42301	502-683-2401
LOUISIANA	New Orleans	General Electric Company 613 Hibernia National Bank Bldg.	70112	504-525-4324
MINNESOTA	Minneapolis	General Electric Company 4900 Viking Drive Room 108	55435	612-835-2550
MISSOURI	Kansas City	General Electric Company 911 Main Street Suite 518	64105	816-221-4033
	St. Louis	General Electric Company 1530 Fairview	63132	314-429-6941
NEW JERSEY	Clifton	General Electric Company 200 Main Avenue	07014	201-472-8100
NEW YORK	Albany	General Electric Company 11 Computer Drive, W.	11205	518-458-7755
	Syracuse	General Electric Company Electronics Park - Bldg.1, Room 225	13201	315-456-3108
	Great Neck	General Electric Company 425 Northern Blvd.	11021	516-466-8800
	Rochester	General Electric Company 3000 Winton Road South	14623	716-461-5400

Continued on next page

GESY – GENERAL ELECTRIC COMPANY (Cont'd)

			Zip Code	Telephone No.
ELECTRONIC COMPONENTS DIVISION – TUBE PRODUCTS DEPARTMENT 316 East Ninth Street, Owensboro, Kentucky			42301	502-683-2401
NORTH CAROLINA	**Greensboro**	General Electric Company 1828 Banking Street Post Office Box 9476	27408	919-273-6981
OHIO	**Cincinnati**	General Electric Company Holiday Park East Bldg. 801-B West 8th Street	45203	513-559-3690
	Cleveland	General Electric Company 25000 Euclid Avenue	44117	216-266-2900
	Dayton	General Electric Company 3430 So. Dixie Highway Post Office Box 2143	45439	513-298-0311
		Kettering Branch	45429	
OKLAHOMA	**Oklahoma City**	General Electric Company 3022 Northwest Expressway May-Ex Bldg. – Room 412	73112	405-943-9015
PENNSYLVANIA	**Erie**	General Electric Company 1100 Lawrence Parkway Bldg. 63-2	16531	814-455-5466
	Philadelphia	General Electric Company 999 Old Eagle School Road Wayne	19087	215-962-1500
	Pittsburgh	General Electric Company 3 Parkway Center Room 304	15220	412-921-9917

Continued on next page

GESY – GENERAL ELECTRIC COMPANY (Cont'd)

			Zip Code	Telephone No.
ELECTRONIC COMPONENTS DIVISION – TUBE PRODUCTS DEPARTMENT				
316 East Ninth Street, Owensboro, Kentucky			42301	502-683-2401
TEXAS	**Dallas**	General Electric Company 6350 LBJ Freeway Suite 119B	75240	214-661-8582
	Houston	General Electric Company 7400 Harwin Drive Suite 106	77036	713-783-8170
VIRGINIA	**Falls Church**	General Electric Company 7777 Leesburg Pike	22043	703-790-1700
	Portsmouth	General Electric Company 808 Louden Avenue	23707	804-347-8752
	Waynesboro	General Electric Company Skyline Motor Court Suites 19 and 20	22908	703-943-1151
WASHINGTON	**Seattle**	General Electric Company 112 Anodver Park East Post Office Box 88850	98188	206-575-2866
WISCONSIN	**Milwaukee**	General Electric Company 615 East Michigan Street	53202	414-271-5000
INTERNATIONAL				
CANADA	**Ontario**	Canadian General Electric 189 Dufferin Street Toronto	60542	416-537-4481

HAC – HUGHES AIRCRAFT COMPANY

			Zip Code	Telephone No.	TWX
ELECTRON DYNAMICS DIVISION 3100 West Lomita Boulevard, Torrance, California			90509	213-534-2121	910-347-6238
MASSACHUSETTS	**Lexington**	Hughes Electron Dynamics Division 594 Marrett Road	02173	617-861-0358	
OHIO	**Dayton**	1918 Grant-Deneau Tower 4th and Ludlow Streets	45402	513-224-0161	
TEXAS	**Dallas**	Royal Central Tower 11300 North Central Expressway Suite 302-1	75231	214-369-9199	
VIRGINIA	**Arlington**	Hughes Electron Dynamics Division 1515 Wilson Boulevard	22209	703-525-1550	
INTERNATIONAL					
CALIFORNIA	**Los Angeles**	Hughes International Sales Post Office Box 92927	90009	213-670-1515 Ext. 6981	213-871-5210 Telex 67222 HUGHESIEG LSA
BELGIUM	**Brussels 16**	Hughes Industrial Electronics Group c/o H.A.I.S.C.O. 348, BD du Souverain		673.41.54	Telex BRU-22242 BRU-22284
WEST GERMANY	**Munich 2**	Hughes Aircraft Int'l Service Company Oskar-V-Miller Ring 31	8000	28.06.00	Telex 05/23430

SEE OUR AD OUTSIDE BACK COVER

ITT – ITT ELECTRON TUBE DIVISION

	Zip Code	Telephone No.	Telex
Post Office Box 100, 3505 Hartley Avenue, Easton, Pennsylvania	18042	215-252-7331	849417

					TWX
CALIFORNIA	Los Angeles	B. G. Rice		213-367-5988	910-496-1588
	Palo Alto	B. G. Rice		415-321-3135	
ILLINOIS (Midwest)	Chicago	J. E. Wood		312-782-4359	
MARYLAND (Southeast)	Baltimore	R.C. Neunzig		301-467-5733	
MASSACHUSETTS (Northeast)	Waltham	J. E. Wood	02154	617-893-5579	
NEW JERSEY (Metro East)	Clifton	H. R. White		201-284-2762	
TEXAS (South Central)	Dallas	R. C. Nuenzig	75235	214-357-1000	
					Telex
CANADA	Ontario	ITT Canada Ltd. Components Division Downsview		416-630-7971	06-22703

LIT – LITTON INDUSTRIES

			Zip Code	Telephone No.	TWX
ELECTRON TUBE DIVISION 960 Industrial Road, San Carlos, California			94070	415-591-8411	910-376-4900
					Telex
WILLIAMSPORT FACILITY 1035 Westminster Drive, Williamsport, Pennsylvania			17701	717-326-3561	84-1430
D. C.	Washington	Litton 490 L'Enfant Plaza, East, S.W.	20024	202-554-2570	
GEORGIA	Warner Robins	Litton Post Office Box 00	31093	912-923-3397	

Continued on next page

LIT – LITTON INDUSTRIES (Cont'd)

	Zip Code	Telephone No.	TWX
ELECTRON TUBE DIVISION 960 Industrial Road, San Carlos, California	94070	415-591-8411	910-376-4900

			Telex
WILLIAMSPORT FACILITY 1035 Westminster Drive, Williamsport, Pennsylvania	17701	717-326-3561	84-1430

NEW JERSEY	West Long Branch	Litton 265 Monmouth Park Hwy.	07764	201-542-7101
OHIO	Dayton	Litton 4130 Linden Avenue	45432	513-258-1243
TEXAS	Dallas	Litton 11333 North Central Exp.	75231	214-369-2184

INTERNATIONAL

CANADA	Thornhill Ontario	Denlen Electronics, Ltd. 23 Guardsman Road	(416)889-7201
EUROPE	England	Litton 95 High Street Slough, Bucks.	SLO 28267
ISRAEL	Tel-Aviv	M.T.I. Engineering, Ltd. 182 Ben Yehuda Street	03-236334
JAPAN	Tokyo	Westrex Company, Orient Central Post Office Box 760	211-6791

MEC – TELEDYNE MEC

	Zip Code	Telephone No.	TWX
3165 Porter Drive, Palo Alto, California	94304	415-493-1770	910-373-1746

MIDWEST REGION

OHIO	Dayton	Teledyne MEC 5899 Huberville Avenue	45431	513-253-8144	810-459-1668

NORTHEAST REGION

CONNECTICUT	Stamford	Teledyne MEC 300 Broad Street	06901	203-325-2535	710-474-3553

Continued on next page

MEC – TELEDYNE MEC (Cont'd)

	Zip Code	Telephone No.	TWX
3165 Porter Drive, Palo Alto, California	94304	415-493-1770	910-373-1746

SOUTHEAST REGION

MARYLAND	**Bethesda**	Teledyne MEC 10215 Fernwood Road Suite 412	20034	301-530-2220	710-824-0404

MIC – MICROWAVE ASSOCIATES, INC.

	Zip Code	Telephone No.	TWX
Northwest Industrial Park, Burlington, Massachusetts	01803	617-272-3000	710-332-6789 Telex 94-9464

MOVB – THE M–O VALVE COMPANY LIMITED

A SUBSIDIARY OF THE GENERAL ELECTRIC CO., LTD. OF ENGLAND

			Zip Code	Telephone No.	Telex
Brook Green Works, Hammersmith, London, England			W67PE	01-603-3431	23435
CANADA	**Ontario**	English Electric Valve No. America, Ltd. 24 Ronson Drive Rexdale ATTN: Mr. G. A. Morton		416-249-8548	02-2762 Cable ENELCAN TORONTO
U. S. A.	**New York**	Calvert Electronics International, Inc. 220 East 23rd Street New York City	10010	212-679-1340	TWX 710-581-4088
	California	Calvert Electronics International, Inc. Post Office Box 5066 San Jose	95150	408-265-0521	TWX 910-338-0521

SEE OUR AD PAGE A-2

NECJ – NIPPON ELECTRIC COMPANY, LIMITED

			Zip Code	Telephone No.	Telex
33-1, Shiba 5-chome, Minato-ku, Tokyo 108, Japan				03-451-1111	NECTOK AJ22686
CANADA	Ontario	Varian Associates of Canada Ltd. 45 River Drive Georgetown		416-457-4130	VARIAN GTWN 069-7502
U. S. A.	New York	NEC America, Inc. Pan Am Building-Suite 4321 200 Park Avenue	10017	212-661-3420	TWX 710-581-3376

OKIJ – OKI ELECTRIC INDUSTRY COMPANY, LIMITED

			Zip Code	Telephone No.	Telex
Export: 10 Shiba Kotohira-cho, Minato-Ku, Tokyo, Japan				501-3111	TK 2627 Cable OKIDENKI
U. S. A. CANADA EUROPE	Florida	OKI Electronics of America, Inc. Head Office and Laboratory The OKI Building 4031 NE 12th Terrace Post Office Box 24260 Fort Lauderdale	33308	305-563-6234	TWX 510-955-9837

RTN – RAYTHEON COMPANY

			Zip Code	Telephone No.	TWX
MICROWAVE AND POWER TUBE DIVISION Foundry Avenue, Waltham, Massachusetts			02154	617-899-8400	710-324-6568
CALIFORNIA	Los Angeles	Raytheon 8939 South Sepulveda Blvd. Suite 324	90045	213-641-3103	910-328-7227
	San Francisco	Raytheon Post Office Box 489 Mountain View	94040	415-964-4754	910-379-6481
FLORIDA	Longwood	Raytheon Route 2, Box 469-C	32750	305-830-6670	
GEORGIA	Warner Robins	Raytheon 114 Tor Drive	31093	912-922-8471	
ILLINOIS	Chicago	Raytheon 754 Industrial Drive Elmhurst	60126	312-833-6760	910-254-1499
MASSACHUSETTS	Waltham	Raytheon 130 Second Avenue	02154	617-890-8080	710-324-6568
NEW YORK	Great Neck	Raytheon 277 Northern Blvd.	11021	516-482-8480	510-223-0871
	Rome	Raytheon 111 East Chestnut Street	13440	315-337-2500	
OHIO	Dayton	Raytheon Post Office Box 3126 5162 Springfield Pike	45431	513-254-3571	810-459-1635
TEXAS	Dallas	Raytheon 6250 LBJ Freeway Suite 207	75240	214-233-2939	910-860-5000
VIRGINIA	Arlington	Raytheon 400 Army-Navy Drive	22202	703-979-6100	710-955-9844
INTERNATIONAL					
CANADA	Ontario	Raytheon Canada Ltd. 400 Phillips Street Waterloo		519-885-0110	610-365-3469
OTHER AREAS OF THE WORLD	U. S. A.	Raytheon Company, International Affairs. 141 Spring Street Lexington, Massachusetts	02173	617-862-6600	710-324-6568 Telex 92-3455 Cable RAYTHEONEX

SGN – SIGNALITE

	Zip Code	Telephone No.	TWX
DIVISION OF GENERAL INSTRUMENT CORPORATION 1933 Heck Avenue, Neptune, New Jersey	07753	201-775-2490	201-775-2255

THC – THOMSON–CSF

	Zip Code	Telephone No.	Telex
ELECTRON TUBE GROUP 8, rue Chasseloup-Laubat, Paris, Cedex 15, France	75737	(1)566.70.04	20.772 Cable THOMTUB

			Zip Code	Telephone No.	Telex
GERMANY	6 Frankfurt/Main	Thomson-CSF Electronenrohren GmbH Am Leonhardsbrunn 10		(0611)70.20.99	413.486 Cable TESAF D
ITALY	Roma	Thomson-CSF Tubi Elettronici SRL Viale Degli Ammiragli 71	136	(6)38 14 58	62475 Cable TELONDE
JAPAN	Tokyo T 102	Thomson-CSF, Japan K.K. Electron Tube Group Kyosho Building 1.9.3. Hirakawa-cho, Chiyoda-ku		(03)264-6341	22.756 Cable TESAFIPO J
SWEDEN	Stockholm 27	Thomson-CSF Elektronror AB Box 27080	S 10 251	(08)22.58.15	1650
UNITED KINGDOM	London	Thomson-CSF Electronic Tubes Ltd. Ringway House, Bell Road Daneshill, Basingstoke	RG24 0QG	(02)562 9155	25.659 Cable TESAFI LONDON
U.S.A.	Clifton (New Jersey)	Thomson-CSF Electron Tubes, Inc. 750 Bloomfield Avenue	07015	201-779-1004	TWX 710-989-7149

SEE OUR AD INSIDE FRONT COVER

TOSJ – TOKYO SHIBAURA ELECTRIC CO., LTD.

			Zip Code	Telephone No.	Telex
CONSUMER PRODUCTS EXPORT DIVISION Component & Lamp Dept., 2-1, 5-chome Ginza, Chuo-ku, Japan				(571)5711	J24681 Cable 4683 TOSHIBAG
ENGLAND	London E.C.1	Tokyo Shibaura Electric Co., Ltd. 12613 Primier House Hatton Garden		405-8641-2	Cable TOSHIBA LONDON
U.S.A.	Chicago (Illinois)	Toshiba America, Inc. Chicago Branch 5235 North Elston	60630	312-545-5123	253017
	New York (New York)	Toshiba America, Inc. OEM Division 200 Park Avenue Suite 1609	10017	212-986-9794	WU 12-7012

VARC – VARIAN ASSOCIATES OF CANADA LIMITED

	Zip Code	Telephone No.	Telex
45 River Drive, Georgetown, Ontario, Canada	L7G 2J4	416-457-4130	069-7502 TWX 610-492-2641

WJC – WATKINS–JOHNSON COMPANY

			Zip Code	Telephone No.	TWX
ELECTRONIC SYSTEMS, SOLID STATE, & ELECTRON DEVICES DIVISIONS 3333 Hillview Avenue, Palo Alto, California			94303	415-493-4141	910-373-1253
CALIFORNIA	**Inglewood**	Watkins-Johnson 11222 La Cienega Blvd.	90304	213-670-4850	910-328-7236
D. C. and MARYLAND	**Gaithersburg (Maryland)**	Watkins-Johnson 700 Quince Orchard Road	20760	301-948-7550	710-828-0546
FLORIDA	**Orlando**	Watkins-Johnson 7001 Lake Ellenor Drive	32809	305-851-2391	810-850-0162
MASSACHUSETTS	**Burlington**	Watkins-Johnson 279 Cambridge Street	01803	617-272-7235	710-332-1789
NEW JERSEY	**New Shrewsbury**	Watkins-Johnson 808 Shrewsbury Avenue	07724	201-842-2422	710-722-5745
OHIO	**Fairborn**	Watkins-Johnson 2500 National Road Suite 200	45324	513-426-8303	810-450-2623
TEXAS	**Dallas**	Watkins-Johnson 4230 LBJ Freeway	75234	214-239-9131	910-860-5142

INTERNATIONAL

ITALY	**Roma-EUR**	Watkins-Johnson (Italiana S.p.A.) Piazza G. Marconi, 25	00144	59 45 54	Telex 60117 Cable WJROM-ROMA
UNITED KINGDOM	**Berkshire**	Watkins-Johnson Shirley Avenue Windsor	SL4 5JU	Windsor 69241	Telex 847578 Cable WJUKW-WINDSOR
WEST GERMANY	**Munchen (Planegg)**	Watkins-Johnson Muenchenerstrasse 17	8033	(089)859 9441	Telex (841)529401 Cable WJDBM-MUNCHEN

7. MANUFACTURERS CODES, NAMES & ADDRESSES

(Manufacturers in order of ***D.A.T.A.*** code letters)

QPL MFR. DESIG.	FSCM No.	DATA MFRS.' CODE	
		ALGG	**– AEG-Telefunken, B1/V/MIW, Postfach 837, 79 Ulm (Donau), Germany**
CEP –	73445–	**APX**	**– Amperex Electronic Co., Microwave Tubes & Components, 230 Duffy Ave., Hicksville, Long Island, New York 11802**
	13866–	BTC	– Beam Tube Corporation, 11 Beach St., Milford, Massachusetts 01757
	01751–	**EEVB**	**– English Electric Valve Co., Ltd., Chelmsford, Essex, England**
	10351–	**EMIB**	**– EMI Varian, Ltd., Hayes, Middlesex, England**
	12264–	**FERB**	**– Ferranti, Ltd., Gem Mill, Chadderton, Oldham, Lancashire, England**
		FERS	**– Ferranti, Ltd., Dunsinane Ave., Dundee DD2 3PN, Scotland**
CG –	85599–	**GESY**	**– General Electric Co., Tube Products Dept., 316 E. 9th St., Owensburg, Kentucky 42301**
CAPN–	73293–	**HAC**	**– Hughes Aircraft Co., Electron Dynamics Div., 3100 W. Lomita Blvd., Torrance, Calif. 90509**
		HITJ	– Hitachi Ltd., No. 6-2, 2-chome, Ohtemachi, Chiyoda-ku, Tokyo 100, Japan
	18232–	**ITT**	**– ITT Electron Tube Div., Post Office Box 100, Easton, Pennsylvania 18042**
	(*)	KLY	– Klystronics, Inc., Mid-Monmouth Industrial Park, Box 534, Eatontown, New Jersey 07724
	80080–	**LIT**	**– Litton Industries, Tube Div., 960 Industrial Rd., San Carlos, California 94070**
		LMTF	– LeMateriel Telephonique, 46-47, Quai A. LeGallo, 92 Boulogne-Billancourt, France
		MEC	**– Teledyne MEC, 3165 Porter Drive, Palo Alto, California 94304**
CBYI –	96341–	**MIC**	**– Microwave Associates, Inc., Burlington, Massachusetts 01803**
	20678–	MIT	– Mictron Div. of KMS Industries, P.O. Box 10126, Sarasota, Florida 33578
	10667–	**MOVB**	**– M-O Valve Co., Ltd., Sub. of The General Electric Co., Ltd. of England, Brook Green Works Hammersmith, London/W67PE, England**
		MULB	– Mullard Ltd., Mullard House, Torrington Place, London WC1E 7HD, England

NOTE: (*) – Manufacturer not a current commercial producer of microwave tubes - address is that last recorded in our files. Company may or may not be active at this address.

Manufacturers shown in bold print have local offices, which are included in Section 6 of this D.A.T.A.BOOK

7. MANUFACTURERS CODES, NAMES & ADDRESSES

(Manufacturers in order of ***D.A.T.A.*** code letters)

QPL MFR. DESIG.	FSCM No.	DATA MFRS.' CODE	
		NECJ	**Nippon Electronic Co., Ltd., Electron Device Div., 33-7 Shiba Gochome, Minato-ku, Tokyo, Japan**
		NJRC	New Japan Radio Co., Ltd., Mori Bldg. Fifth, No. 25, Sakuragawa-Cho, Shiba Nishikubo Minato-ku, Tokyo, Japan
		NONE	Not Currently Manufactured.
		OKIJ	**OKI Electric Industry Company, Ltd., 10 Kotohira-Cho, Minato-ku, Tokyo, Japan**
		OWE	Omni-Wave Electric Corp., Blackburn Industrial Park, Gloucester, Massachusetts 01930
	86684	RCA	RCA Corp., Electronic Components Dept., Harrison, New Jersey 07029
		RTCF	R. T. C. La Radiotechnique-Compelec, 130 Avenue Ledru-Rollin, 75.540 Paris Cedex 11, France
CRP	49956	**RTN**	**Raytheon Company, Microwave & Power Tube Div., Foundry Avenue, Waltham, Mass. 02154**
		SGN	**Signalite, Div. of General Instrument Corp., 1933 Heck Ave., Neptune, New Jersey 07753**
	92346	SIEG	Siemens Corp., 186 Wood Avenue South, Iselin, New Jersey 08830
	08696	SPY	Sperry Microwave Systems, Microwave Components, Gainesville, Florida 32601
	89435	STCB	Standard Telephones & Cables, Ltd., Connaught House, Aldwych, London, W.C. 2, England
		THC	**Thomson-CSF Electron Tubes, Inc., 750 Bloomfield Avenue, Clifton, New Jersey 07015**
	18657	**TOSJ**	**Tokyo Shibaura Electric Co., Ltd., Power Tube Eng. Section, Horikawacho Works, 72, Horikawacho, Saiwai-ku, Kawasaki, Kanagawa, 210, Japan**
CBXT	99313	VAR	Varian Associates, 611 Hansen Way, Palo Alto, California 94303
	02845	**VARC**	**Varian Associates of Canada, Ltd., 45 River Drive, Georgetown, Ontario, Canada**
	21255	VET	Varian/Eastern Tube Div., Beverly, Massachusetts 01915
	17920	WAR	Warnecke Electron Tubes, Inc., 175 W. Oakton Street, Des Plaines, Illinois 60018
	14482	**WJC**	**Watkins-Johnson Co., Electron Devices Div. & Electronic Systems Div., 3333 Hillview Ave., Palo Alto, California 94304**

Manufacturers shown in bold print have local offices, which are included in Section 6 of this D.A.T.A.BOOK

SYMBOLS & CODES EXPLAINED

FOLLOWING TYPE No. & IN CROSS-INDEX

#, ⧄, △ } Indicators of separate manufacturers producing same type number (non-JEDEC) whose characteristics are not the same. This manufacturer-identifying symbol (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross-Index and Technical Data Section) to avoid the possibility of confusing the device of one manufacturer with the devices of the others.

Example	Type No.	Manufacturer	Tube Type
	W9/2E #	STCB	TWT
	W9/2E ⧄	HITJ	KL
	W9/2E △	WJC	MG

#1, #2, #3. . . . Tube Listed More than Once for Different Modes of Operation

ALL VALUES TYPICAL UNLESS OTHERWISE INDICATED

2. SOURCE, AMPLIFIER, OUTPUT TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)POWER OUTPUT (4)TYPE No.

LINE No.	4 TYPE No.	2 CENTER FREQ. (Hz)	3 POWER OUTPUT (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE *	MAX. BEAM VOLTAGE (Note 1) (V)	MAX. CATH-ODE CUR. (A)	GAIN (dB)	NF (dB)	DESCRIPTION 1 TUBE TYPE	DESCRIPTION FUNC-TION	DESCRIPTION TUN-ING	DESCRIPTION OUT PUT	DESCRIPTION WEIGHT (lb)
1			2	3	4	5	6	7	8	9	10	11	12	13

1

▼ : New
♦ : Revised
: Foreign

2

* : Maximum
† : Minimum
△ : Peak R-F carrier wave beam
SEE FOOTNOTE

3

† : Range covered by two or more tubes
* : Tube can be set to one Freq. within this freq. range
∅ : Tube can be set for a specified tuning range within these limits
△ : Frequency coverage – available in selected frequency ranges
⧄ : Fine tuning range at set frequency
§ : Frequency tolerance at fixed frequency
♦ : Tube can be set to several frequencies within band

4

CW: Continuous Wave

5

§ : Integral Power supply with source voltage indicated. The following symbols coupled with the above indicate the frequency of the source voltage:

△ : 60 CPS
⧄ : 400 CPS
∅ : DC
* : 50 CPS

† : Power Supply Input Voltage and Frequencies Selectable (Max. Values Specified)

Note 1:

The Max. Beam Voltage represents:
Anode to Cathode for Magnetron;
Resonator to Cathode for Klystron;
Periodic Structure to Cathode for other devices;
Anode to Cathode on-state or operating voltage for Noise Source.

6

⧄ : Helix Current
∅ : Nominal
△ : Max. Anode Current See Footnote

7

* : Maximum
† : Minimum
△ : Peak R-F carrier wave beam
§ : Min. Conv. Gain
∅ : Matched Gain

8

* : Maximum
† : Minimum
§ : Effective Noise Ratio

9

Note: All Magnetrons have permanent magnets unless otherwise indicated.

BWT : Backward Wave Tube
BWM : Backward Wave Tube-M Type
CFA : Crossed-Field Amplifier
CFG : Crossed-Field Noise Generator
KLT : Klystron Input, Traveling Wave Output
KL : Klystron
KL2, KL3 } Indicates number of cavities
KLF : Floating Drift Tube Klystron
KLR : Reflex Klystron
KLS : Supported Drift Tube Klystron
MG : Magnetron
MGC : Coaxial Magnetron
MGI : Inverted Coaxial Magnetron
NS : Noise Source
PL : Platinotron
TWT : Traveling Wave Tube
∅ : Electromagnetic Field
△ : Electrostatic Field
* : Gridded
† : Permanent Magnetic Field
§ : Periodic Permanent Magnetic Focusing
# : Liquid Cooled
⧄ : Solid State

10

Note: For frequency multiplier tubes, the center frequency column indicates the center frequency of the input signal and under frequency range column, the output frequency range is given.

AM : Amplifier
AMD : Dispersive Amplifier
AML : Low Noise Amplifier (10db max.)
CON : Converter
FQ : Frequency Multiplier. Numeric suffix indicates multiplication factor. (X = 10)
LIM : Limiter
OS : Oscillator
SEA : Serrodyne Amplifier, Low Noise
SER : Serrodyne Modulator

11

Note: For traveling wave tubes and any broad band tubes, this column is left blank, indicating that no adjustments are necessary to obtain the entire listed frequency range.

BB: Broad Band
DT: Dither Tuned
EM: Electro-Mechanical FM
FF: Fixed Frequency
FM: Frequency Modulated
HT: Hydraulically Tuned
MT: Mechanically Tuned
SE: Separate Resonator Electro-Mechanical FM
SR: Separate Resonator
ST: Spin Tuned
TT: Thermally Tuned
VT: Voltage Tuned

12

CC: Cavity Coupled
CO: Coaxial
CS: Output connector made to customer's specifications
WA: Waveguide Output
WC: Waveguide or Coaxial Output

13

* : Wt. includes external magnet, solenoid and/or cavity.
§ : Wt. of device only. More than one (1) magnet, solenoid and/or cavity size indicated by manufacturer.
⧄: Instrumentation type.
△: Max. wt. indicated by manufacturer.

Note: For pulse tubes (indicated by duty cycle other than C.W.) the given data of Power Output, Max. Beam Voltage and Max. Cathode Current are pulsed values. For C.W. tubes, the indicated values are dc.

SYMBOLS & CODES EXPLAINED (Cont'd)

ALL VALUES TYPICAL UNLESS OTHERWISE INDICATED

3. DUPLEXER TUBES

IN ORDER OF (1)TUBE TYPE (2)CENTER FREQUENCY (3)INCIDENT POWER (4)TYPE No.

LINE No.	[4] TYPE No.	[2] CENTER FREQ. (Hz)	[3] INCIDENT POWER (W)	FREQUENCY RANGE (Hz)	MAX. DUTY CYCLE	MAX. PULSE WIDTH (s)	RECOVERY TIME (s)	MAX. VSWR	LEAKAGE		MAX. INSERTION LOSS (dB)	DESCRIPTION			
									SPIKE (ergs)	FLAT (W)		[1] TUBE TYPE	FEATURES	OUTPUT	LIFE (hr)
1			2	3		4	5	6	7	8	9	10	11	12	13

1

▼ : New
♦ : Revised
: Foreign

2

* : Maximum
† : Minimum
△ : Peak R-F carrier wave beam
SEE FOOTNOTE

3

† : Range covered by two or more tubes
* : Tube can be set to one Freq. within this freq. range
∅ : Tube can be set for a specified tuning range within these limits
△ : Frequency coverage — available in selected frequency ranges
⧄ : Fine tuning range at set frequency
§ : Frequency tolerance at fixed frequency
♦ : Tube can be set to several frequencies within band

4

§ : Test condition for max. power output

5

* : Maximum

6

∅ : Typical

7

* : Maximum
§ : Isolation in DB

8

* : Maximum
⧄ : Low Power leakage
† : Energy in ergs.

9

⧄ : Trans. mode
§ : Receive mode
∅ : Typical
$: Max. arc Loss
† : Minimum

10

ATR : Anti Trans-Rec.
PTR : Pre T–R
TR : Trans-Rec.
TRL : TR Limiters
TRDL : TR–Dual
TRLD : Dual TR Limiters
PTRD : Pre TR Dual
DPBA : Balanced Duplexer
DPBR : Branched Duplexer
: Liquid cooled
* : Supplied as matched set

11

BP : Band Pass or Broad Band
DP : Diode Protected or Limited
SS : Solid State Protected
FP : Ferrite Protected or Limited
$: Shutter
§ : Hard Brazed
* : Soft Soldered
PS : Passive (Igniterless)
⧄ : Quartz
CM : Cavity Mounted
CP : Crystal Protected
PL : Plug In
MT : Mechanically Tuned

12

CC: Cavity Coupled
CO: Coaxial
CS: Output connector made to customer's specifications
WA: Waveguide Output
WC: Waveguide or Coaxial Output

13

* : Maximum
† : Minimum
⧄ : Cycles

NOTE: For pulse tubes (indicated by duty cycle other than C.W.) the given data of Incident Power are pulsed values. For C.W. tubes, the indicated values are dc.

NOTES

We feel you may have some useful comments which deserve consideration for future editions.

User Feedback

Your comments, suggestions, criticisms help immeasurably in keeping the D.A.T.A.BOOKS accurate and in tune with your information requirements. Your participation is very much appreciated.

ERRORS OR OMISSIONS NOTED . . . OR OTHER COMMENTS

Your Name ____________________

Title ____________________

Dept. ____________________

Company ____________________

Address ____________________

City ____________________

State or Country ____________________

Zip Code ____________________

BMW4

User Feedback

Your comments, suggestions, criticisms help immeasurably in keeping the D.A.T.A.BOOKS accurate and in tune with your information requirements. Your participation is very much appreciated.

ERRORS OR OMISSIONS NOTED . . . OR OTHER COMMENTS

Your Name ____________________

Title ____________________

Dept. ____________________

Company ____________________

Address ____________________

City ____________________

State or Country ____________________

Zip Code ____________________

BMW4

HOW MANY SUBS.?	Book Code	D.A.T.A.BOOK DESCRIPTIONS (If your company requires a P.O., please include book code and description.)	Editions Per Year	ONE YEAR PREPAID SUBSCRIPTION			
				UNITED STATES	INTERNATIONAL – U.S. DOLLARS Check box for type of shipping preferred.		
					SURFACE ☐ Worldwide	AIR MAIL ☐ Europe, So. America, Medit. Africa	AIR MAIL ☐ Asia, Pacific USSR, Africa
	TR	TRANSISTORS	2	$38.50	$40.90	$46.90	$50.40
	XT	DISCONTINUED TRANSISTORS	1	17.00	17.85	19.30	20.15
	DI	SEMICONDUCTOR DIODES	2	44.50	46.90	56.80	62.00
	SM	MSI-LSI MEMORIES	2	28.50	30.20	33.10	34.80
	TY	THYRISTORS	2	29.50	31.20	35.50	37.90
	XD	DISCONTINUED THYRISTORS	1	9.75	10.35	11.35	11.85
	PW	POWER SEMICONDUCTORS	2	47.50	49.90	55.90	59.40
	LN	LINEAR INTEGRATED CIRCUITS	2	34.50	36.20	40.50	42.90
	DG	DIGITAL INTEGRATED CIRCUITS	2	42.50	44.90	53.30	57.90
	XC	DISCONTINUED ICs	1	17.50	18.35	19.80	20.65
	AN	APPLICATION NOTES	2	25.50	26.70	29.10	30.40
	HD	SEMICONDUCTOR HARDWARE	1	24.50	25.35	27.75	29.05
	MW	MICROWAVE TUBES	2	29.50	31.20	34.10	35.80
	RL	RELAYS	1	27.50	28.35	29.80	30.65

rices subject to change without notice.

PLEASE RETURN THIS CARD WHEN ORDERING.

Please request quotation on any area not covered by above.

YES! Enter my order for D.A.T.A.BOOKS as indicated.

(Please print)

BMW42

Name ____________________

____

Title ____________________

Company ____________________

Address ____________________

City ____________________

State & Zip ____________________

Signature ____________________

P.O. No. ____________ Date ____________

☐ Attached ☐ Will follow

☐ **PAYMENT ENCLOSED** (No handling charge — full refund privilege)

☐ **BILL** (Add handling charge of $1.50 PER SUBSCRIPTION to above prices)

Mail User Comments to:

D.A.T.A.,Inc., a Cordura Company, 32 Lincoln Avenue, Orange, New Jersey 07050

Mail User Comments to:

D.A.T.A.,Inc., a Cordura Company, 32 Lincoln Avenue, Orange, New Jersey 07050

Send Order Form to:

D.A.T.A.,Inc., a Cordura Company, 32 Lincoln Avenue, Orange, New Jersey 07050

EEV and M-OV know how to make microwave tubes.

And much, much more!

LAP 68A

Magnetrons, hydrogen thyratrons, klystrons, travelling-wave tubes, duplexer devices, cathode ray tubes, pulse tetrodes, backward-wave oscillators... the list of EEV and M-OV products goes on. We make them all: there are over 1,000 types listed in our current catalogue. If the type you need isn't there, don't worry: we can probably make it for you.

Our tube capability is known throughout the world. The range is wide, quality and reliability superb – our customers have proved it hundreds of times.

Full details in the U.S.A. from:
Calvert Electronics International Inc.,
220 E.23rd Street, New York 10010.
Telephone: 212-679-1340.

Or contact EEV or M-OV direct.

SEE OUR LIST OF REPRESENTATIVES IN MANUFACTURERS LOCAL OFFICES SECTION.

EEV and M-OV know how.

THE M-O VALVE CO LTD, Hammersmith, London, England W6 7PE. Tel: 01-603 3431. Telex: 234356. Grams: Thermionic London.
ENGLISH ELECTRIC VALVE CO LTD, Chelmsford, Essex, England CM1 2QU. Tel: 0245 61777. Telex: 99103. Grams: Enelectico Chelmsford.

Genalex

HUGHES HAS A LINE OF SOLUTIONS FOR YOUR TRAVELING-WAVE TUBE PROBLEMS.

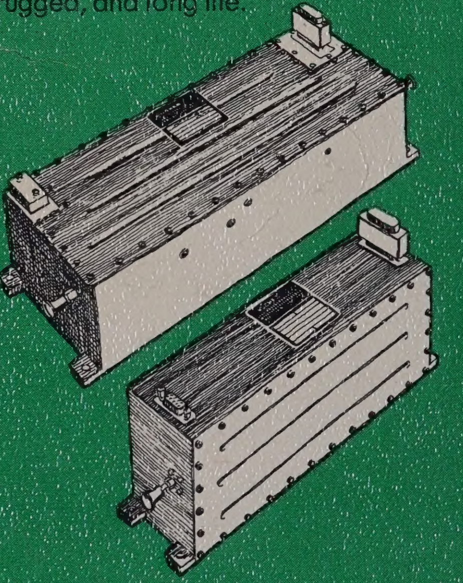
Hughes has spent years researching, developing, and perfecting traveling wave tubes. Today, these proven TWTs can turn even the most difficult problems into successful solutions. To order the Problem Solvers, write us at Hughes Aircraft Co., Electron Dynamics Division, 3100 West Lomita Blvd., Torrance, Calif. 90509—or call (213) 534-2121.

HUGHES

HUGHES AIRCRAFT COMPANY
ELECTRON DYNAMICS DIVISION

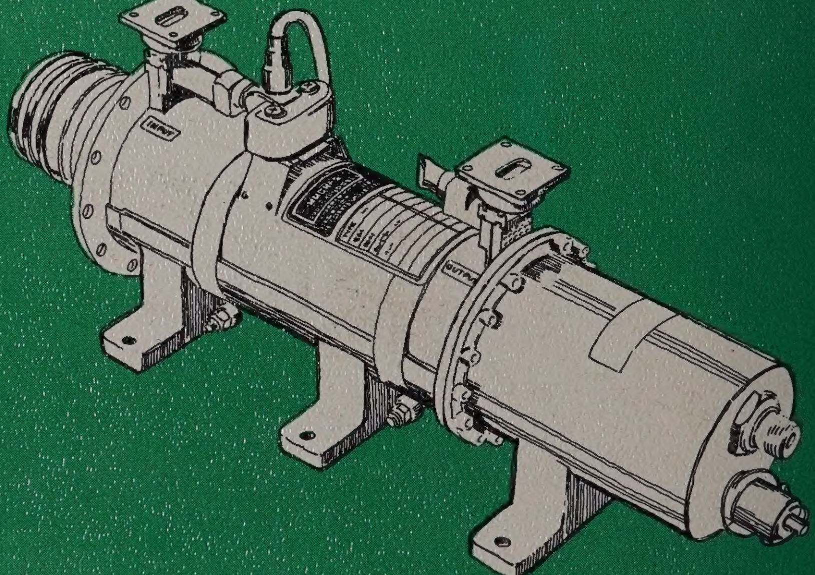
SPACE MATES

Paired up TWTs with their own power supply that can really deliver. X-band models 1200H and 1202H—together they put out 20 watts for long range satellite communications. Small, compact, lightweight, incredibly rugged, and long life.



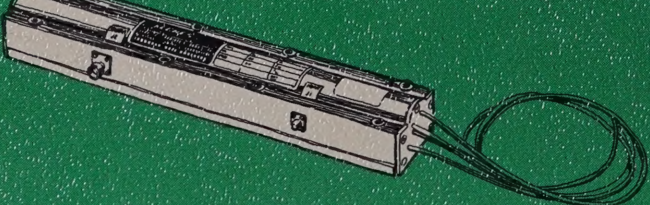
RADAR MUSCLE

For big-sky performance. Wide range of broadband tubes go up to 100 kW of peak power and at duties up to 5% with PPM focusing. Non-intercepting grid. Approximately 1 GHz bandwidth at X-band frequencies. Model 751H.



HIGH FLIER

It's pulsed. It's high mu grid controlled. It's operating at 8.0—16.0 GHz with 1 kW peak power output at 4% duty factor. It's available in grounded or depressed collector configurations. It's Model #774H.



SCHIZO TUBE

Dual-mode Model 562H. With PPM focused power 2.0—4.0 GHz. A powerful performer that can deliver either 1 kW of peak power at 5% duty or 200 W of CW power, or any combination of these power levels—all done with a simple, single element control grid.